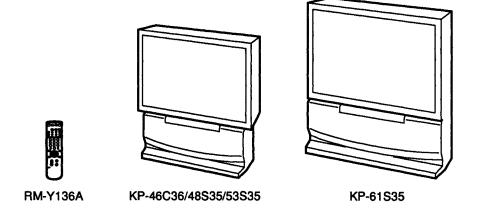
SERVICE MANUAL

RA-2 CHASSIS

MODEL	COMMANDER DEST.	CHASSIS NO.	<u>MODEL</u>	COMMANDER	DEST. CHASSIS NO.
KP-46C36	RM-Y136A US	SCC-K90C-A			
KP-48S35		SCC-K90B-A SCC-N22A-A			
KP-53S35		SCC-K90A-A SCC-N22B-A			
KP-61S35	RM-Y136A US	SCC-K90D-A			







COLOR REAR VIDEO PROJECTOR SONY.

※ Please file according to model size.



48

53

3 6

61

SPECIFICATIONS

Projection system 3 picture tubes, 3 lenses,

horizontal in-line system

Picture tube

7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and

liquid cooling system

Projection lenses High performance, largediameter hybrid lens F1.1

Screen size (measured diagonally)

KP-46C36 46 inches KP-48S35 48 inches KP-53S35 53 inches KP-61S35 61 inches

Television system American TV standards

Channel coverage VHF: 2-13 / UHF: 14-69 /

CATV: 1 - 125

Antenna

75 ohm external antenna terminal for VHF/UHF

inputs/output

VIDEO IN 1

S VIDEO (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal)

75 ohms

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms

VIDEO IN 2 (for KP-48S35/53S35/

61535)

VIDEO IN 3 (for KP-46C36 only)

VIDEO (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms

MONITOR OUT

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms

(100% modulation), Impedance: 10 kilohms

AUDIO OUT (phono jacks): 500 mVrms

mVrms (100% modulation) Impedance: 5 kilohms

Speaker

Full range speaker 100 mm (3.9

inches) diameter

Speaker output 10 W x 2

Power requirement

120 V, 60 Hz

Power consumption

165 W

Standby mode: 3 W

	Dimensions(W/H/D)	Mass
KP-46C36	1,066 × 1,306 × 563 mm (42 × 51 ¹ / ₂ × 22 ¹ / ₄ inches)	65 kg (143 lbs 5 oz)
KP-48S35	1,106 × 1,337 × 571 mm (43 ⁵ /s × 52 ⁵ /s × 22 ¹ /2 inches)	67 kg (147 lbs 11 oz)
KP-53S35	1,218 × 1,413 × 614 mm (48 × 55 ⁵ /8 × 24 ¹ /4 inches)	69 kg (152 lbs 1 oz)
KP-61S35	1,338 × 1,506 × 642 mm (52 ³ / ₄ × 59 ³ / ₈ × 25 ³ / ₈ inches)	122 kg (268 lbs 15 oz)

Supplied accessories

Remote control RM-Y136A (1) Size AA (R6) battery (2)

Optional accessories

U/V mixer EAC-66

Connecting cables RK-74A, VMC-810S/

820S, YC-15V/30V, VMC-720M High-contrast protective screen SCN-46X1 (For KP-46C36)

SCN-48X2 (For KP-48535) SCN-53X2 (For KP-53S35) SCN-61X2 (For KP-61S35)

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!! COMPONENTS IDENTIFIED BY SHADING AND MARK riangle On the SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION, REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNÈCTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cords for cracks and abrasion.
 Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.
 Check leakage as described below.

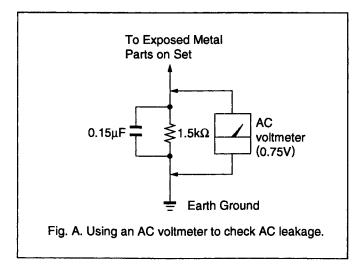
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufactures' instructions to use these instruments
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



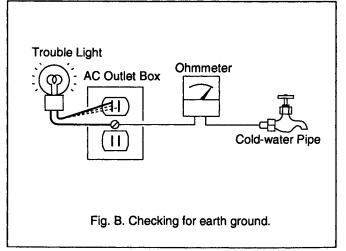


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SECTION 1 GENERAL

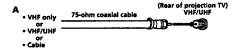
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

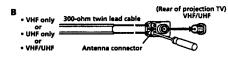
Step 2: Hookup

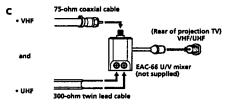
Although you can use either an indoor or outdoor antenna with your projection TV, we recommend that you connect an outdoor antenna or a cable TV system to get better picture quality.

Connecting an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.





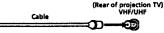


Notes

- Most VHF/UHF combination antennas have a signal splitter.
 Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37.

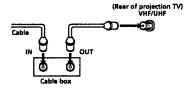
Connecting an antenna/cable TV system without a VCR

To cable or antenna

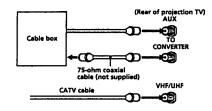


To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



To cable box and cable



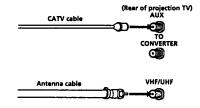
Pay cable TV systems use scrambled or encoded signals requiring a cable box* in addition to the normal cable connection.

* The cable box will be supplied by the cable company.

Note

 You cannot watch the signal through an AUX connector as a window picture.

To cable and antenna



Note

 Do not connect anything to the TO CONVERTER connector in this case.

Connecting an antenna/cable TV system with a VCR

For details on connection, see your VCR instruction manual.

Before making the connection, disconnect the AC power cords of the equipment to be connected.

To a conventional VCR

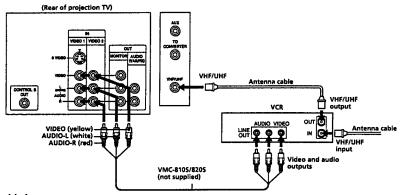
Notes

- For models KP-46C36, you can connect the audio and video outputs of the VCR to VIDEO 3 IN jacks instead of the VIDEO 2 IN jacks.
- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (MONO) of VIDEO 1/2/3 IN on the projection TV.

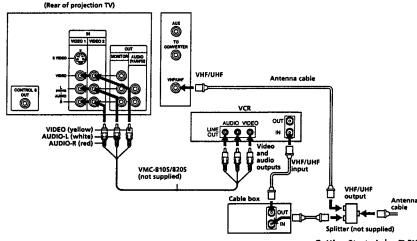
After making these connections, you will be able to do the following:

- · View the playback of video tapes
- Record one TV program while viewing another program
- · Watch two TV programs at once using PIP

Without a cable box



With a cable box

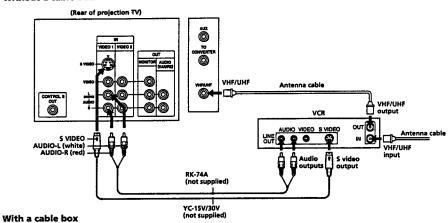


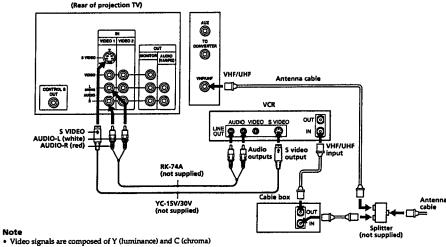
To an S video equipped VCR

If your VCR has an S VIDEO output connector, make the following connections.

Whenever you connect the cable to the S VIDEO input connector, the projection TV automatically receives S video signals.

Without a cable box





signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connections.

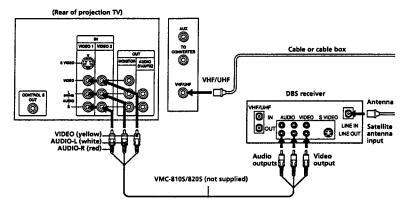
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Connecting a DBS receiver

For details on connection, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

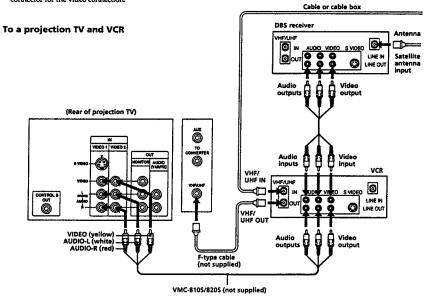
To a projection TV

· For models KP-46C36, you can connect the audio and video outputs of the VCR to VIDEO 3 IN jacks instead of the VIDEO 2 IN jacks.



Note

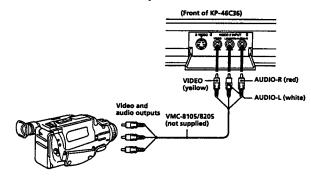
 You can use the S VIDEO connector or the composite video connector for the video connection.



Connecting a camcorder

■ KP-46C36 only

Use this connection to view a camcorder picture.

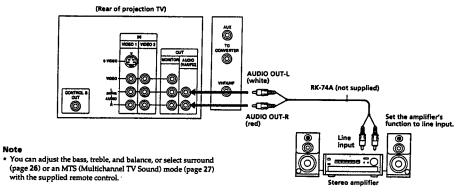


Note

 To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO-L (MONO) of VIDEO 2 INPUT on the projection TV.

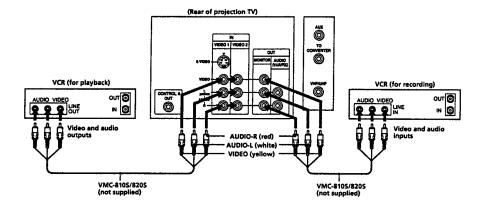
Connecting an audio system

When connecting audio equipment, see page 28 for more information.



Connecting two VCRs for tape editing using MONITOR OUT

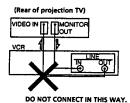
You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.



Notes

- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- You can use the S video jack to connect a VCR for playback and the composite video connector to connect a VCR for recording.
- For models KP-46C36, you can connect the audio and video outputs of the VCR to VIDEO 3 IN jacks instead of the VIDEO 2 IN jacks.

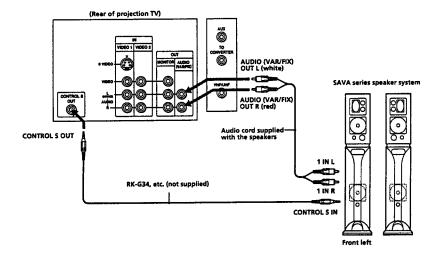
 When connecting a single VCR to the projection TV, do not connect the MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN connectors to the VCR's line output, as shown below.



Connecting a Sony SAVA series speaker system

If you have a Sony SAVA series speaker system, connect your speakers to the AUDIO (VAR/FIX) OUT jacks on the rear of the projection TV with the audio cable supplied with the speakers. You can take advantage of the speakers' Dolby Pro Logic* surround system and super woofer mode, and control them with the supplied remote control. When connecting a Sony SAVA series speaker system, see page 27 for more information.

 Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby," the double-D symbol IXI and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.



Step 3: Setting up the remote control

Inserting batteries

Insert two size AA (R6) batteries (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.





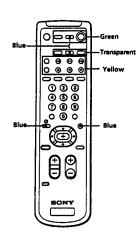
Notes

- Under normal conditions, batteries will last up to six months.
 If the remote control does not operate properly or the indicators of the buttons on the remote control do not light up, the batteries may be worn out. When replacing batteries, replace both of them with new ones.
- Do not mix old batteries with new ones or mix different types of batteries together.
- If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the batteries when you don't plan to use the remote control for a long period of time.
- Do not handle the remote control roughly. Do not drop it, step on it, or let it get wet.
- Do not place the remote control in direct sunlight, near a heater, or where the humidity is high.

Getting to know buttons on the remote control

Names of buttons on the remote control are indicated in different colors to represent the available functions.

Button color



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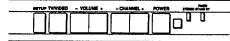
Step 4: Setting up the projection TV automatically

(AUTO SET UP)

You can set up your projection TV easily by using the AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the onscreen menu language. To set up the projection TV manually, see "Adjusting convergence" (page 16), "Setting cable TV on or off" (page 17), "Presetting channels" (page 18) and "Changing the menu language" (page 18).

If the projection TV is set to a video input, you cannot perform AUTO SET UP. Press TV/VIDEO so that a channel number appears.

(Front of projection TV)



Before you start using AUTO SET UP, be sure to connect the antenna or cable to the projection TV (see page 6).

1 Press POWER to turn the projection TV on.



2 Press SETUP on the front of the projection

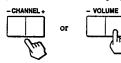
AUTO SET UP screen appears.





3 Press CHANNEL +/~ or VOLUME + to select the on-screen menu language.

If you prefer Spanish or French to English, you can change the on-screen menu language.



All of the menus will be set to the factory preset condition in the selected language.

4 Press VOLUME - to start AUTO SET UP.





5 Press CHANNEL + to preset channels.





"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CABLE is set to ON automatically.

CONTINUE TO YES : CH-

To exit AUTO PROGRAM

Press any button.

6 Adjust convergence. (1) Press CHANNEL +.

The CONVERGENCE adjustment screen appears.



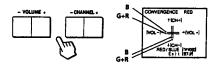


(2) Press TV/VIDEO to select RED or BLUE.





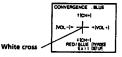
(3) Using CHANNEL +/- or VOLUME +/-, move the line until it converges with the center green line.



To move horizontal line up/down, press CHANNEL

To move vertical line right/left, press VOLUME +/-.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.



· Using the AUX connector, press TV (black button) first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow the steps 2 to 6 above to perform

To preview the main functions (DEMO)

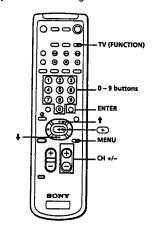
Press TV/VIDEO on the projection TV in step 4. The functions and menus are displayed one by one.

To exit DEMO

Press any button.

Erasing or adding channels

After AUTO SET UP, you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



Press TV (FUNCTION).



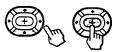
2 Press MENU.

The main menu appears.

MENU



3 Press + or + to select ♠, and press ⊕. The SET UP menu appears.





4 Press + or + to select CHANNEL ERASE/ADD, and press (+).

The CHANNEL ERASE/ADD menu appears.







5 Erase and/or add channels:

To erase an unwanted channel

- Make sure the cursor (▶) is beside ERASE.
- (2) Press CH +/- or the 0 9 buttons to select the channel you want to erase, and press ENTER.



(3) Press .

The "-" indication appears beside the channel number, showing that the channel is erased from the preset memory.



To add a channel that you want

- (1) Press ♦ or ♦ to move the cursor (▶) to ADD.
- (2) Press the 0 9 buttons to select the channel you want to add, and press ENTER.

Selected channel numbe





(3) Press (1).

The "+" indication appears beside the channel number, showing that the channel is added to the preset memory.



- 6 To erase and/or add other channels, repeat
- 7 Press MENU to return to the original screen.



Notes

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and
- Erasing and adding channels is also available for the AUX input.

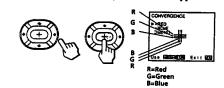
Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.

You do not have to do this procedure if you perform AUTO SET UP (page 14). Do this procedure only when you want to adjust it manually.

- 1 Press MENU.
- 2 Press + or + to select 🖶 , and press 🖜 .
- 3 Press + or + to select CONVERGENCE, and

The CONVERGENCE adjustment screen appears.

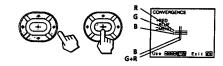


4 Press +, +, +, or + to move the cursor (►) to the symbol showing the line you want to adjust, and press .





- +RED: Red vertical and horizontal line (left/right/up/ down adjustment)
- +BLUE: Blue vertical and horizontal line (left/right/up/ down adjustment)
- 5 Press +, +, +, or + to move the line until it converges with the center green line, and press (+).



To move	Press	
Up	•	
Down	+	
Right	•	
Left	+	

- Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.
- 7 Press MENU to return to the original screen.

Setting cable TV on or off

If you have connected the projection TV to a cable TV system, set CABLE to ON (the factory setting). If not. set CABLE to OFF.

You do not have to do this procedure if you perform AUTO SET UP (page 14). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select ♠, and press ⊕.
- 3 Set CABLE to ON or OFF:
 - (1) Press or to move the cursor (▶) to CABLE, and press \oplus .
 - (2) Press ♦ or ♦ to select ON or OFF, and press ⊕.







4 Press MENU to return to the original screen.

 If CABLE appears in gray, the projection TV is set to a video input and you cannot select CABLE. Press TV (black button) so that a channel number appears.

You can preset TV channels easily by using the AUTO PROGRAM feature.

You do not have to do this procedure if you perform AUTO SET UP (page 14). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🕀.
- 3 Press + or + to select AUTO PROGRAM, and press \oplus .







"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

4 Press MENU to return to the original screen.

To exit AUTO PROGRAM Press any button.

Notes

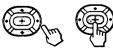
- If the AUTO PROGRAM menu appears in gray, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV (black) button so that a channel number
- · Presetting channels is also available for the AUX input.

Changing the menu language

If you prefer Spanish or French to English, you can change the menu language.

You do not have to do this procedure if you select the language during AUTO SET UP (page 14). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select ♠, and press ⊕.
- 3 Press + or + to select LANGUAGE, and press





4 Press + or + to select your favorite language, "ENGLISH", "ESPAÑOL," or "FRANÇAIS" and press .





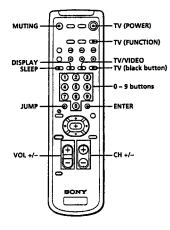


5 Press MENU to return to the original screen.

· Certain parts of the Spanish or French menus remain in English.

Operations

Watching the TV



1 Press TV (POWER) to turn on the projection

The TIMER/STANDBY indicator flashes until the picture appears.



If "VIDEO" appears on the screen, press TV (black button) so that a channel number appears.

2 Press TV (FUNCTION).



Once you press TV (FUNCTION), the projection TV function is set unless another function button is pressed.

3 Select the channel you want: To select a channel directly

Press the 0 - 9 buttons, and press ENTER. For example, to select channel 10, press 1, 0 and ENTER.



To scan through channels

Press CH +/- until the channel you want appears.



The channel can also be selected without pressing ENTER.

4 Press VOL +/- to adjust the volume.





Switching quickly between two channels

You can use the JUMP button to switch or "jump" back and forth between two channels.

Press JUMP.



Pressing JUMP again switches the channel back to the one you selected last.

. You cannot jump to channels you scanned through using the CH +/- buttons.

Muting the sound

Press MUTING.

"MUTING" appears on the screen. MUTING

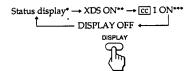


To restore the sound, press MUTING again, or press VOL+. Operations | 19-EN

Displaying on-screen information

Press DISPLAY repeatedly until the desired display appears.

Each time you press DISPLAY, the display changes as follows:



- Channel number, the current time, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.
- ** Some programs are broadcast with XDS (Extended Data Service) which shows a network name, program name, program type, program length, call letters, and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.
- *** Some programs are broadcast with Caption Vision. When you select Caption Vision with the DISPLAY button, Caption Vision will be displayed on the screen if the broadcaster offers this service. (See page 34 for selecting Caption Vision.)

To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (minutes) you want appears.

Each time you press SLEEP, the time-changes as follows:

To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn off the projection

20-EN | Operations

Watching a video input picture

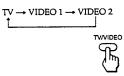
Press TV/VIDEO repeatedly until the desired video input appears.

Each time you press TV/VIDEO, the display changes as follows:

■ KP-41T35/46C36 only

 $\begin{array}{c} \text{TV} \rightarrow \text{VIDEO 1} \rightarrow \text{VIDEO 2} \rightarrow \text{VIDEO 3} \\ \uparrow \\ \hline \end{array}$

■ KP-48535/53535/61535 only



To return to the TV picture, press TV (black button) so that a channel number appears.

Changing the VHF/UHF input to the AUX input

Press TV (black button).

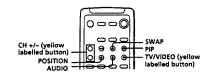
"AUX" appears beside the channel number.



Pressing TV (black button) again switches back to the VHF/UHF input. $\label{eq:vhf} % \begin{subarray}{ll} \end{subarray} % \begin{subarray}{ll$

Watching two programs at one time — PIP

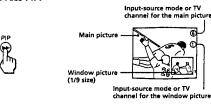
The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.



Use the yellow labelled buttons for PIP operations.

Displaying a window picture

Press PIP.



Press PIP again to display a smaller window picture. Input-source mode or TV

Window picture

(1/16 size)

Input-source mode or TV
channel for the window picture

To remove the window picture, press PIP again.

Note

 The window picture may be affected by the condition of the main picture.

Changing the window picture input mode

Press TV/VIDEO (yellow labelled button) to select the input mode.

Each time you press TV/VIDEO (yellow labelled button), "TV," "VIDEO 1," "VIDEO 2," and "VIDEO 3 (for KP-46C36 only)" appear in sequence.





A window picture will appear in the same input mode as the last time you used PIP.

Note

 If you connect your VCR without a cable box, your PIP input source is a VCR. If you connect your VCR with a cable box, your PIP input source is a VCR or cable box.

Listening to the sound of the window picture

Press AUDIO.

The $\ J$ display appears next to the PIP channel number for a few seconds, indicating that the window picture sound is being received.





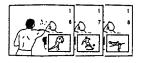
The sound of the window picture is received.

To restore the main picture sound, press AUDIO again. The 💰 display moves to the main picture channel number.

Changing TV channels in the window picture

Press CH +/- (yellow labelled button).





Changing the position of the window picture

Press POSITION.

Each time you press POSITION, the window picture will move counterclockwise on the screen.



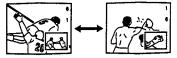


Swapping the main and window pictures

Press SWAP.

Each time you press SWAP, the images and sound from the main and window pictures switch places with another.

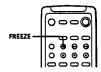




 The channels being received through the AUX connector cannot be displayed as a window picture.

Freezing the picture (FREEZE)

The FREEZE feature is useful when you want to write down an information such as a recipe from a cooking program, a displayed address, or a phone number. The frozen picture changes as follows depending on whether the PIP function is used or not.



Press FREEZE.



When the PIP function is not being used



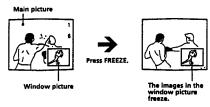




The frozen picture appears in the window picture.

To remove the frozen window picture, press FREEZE again.

When the PIP function is being used

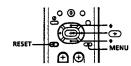


To cancel the frozen window picture, press FREEZE again.

Adjusting the picture (VIDEO)

When watching TV programs, you can adjust the picture to suit your taste.

You can adjust the picture of video input(s) as well.



- 1 Press MENU.
- 2 Press + or + to select (III), and press .







- 3 Select the item you want to adjust. For example:
 - (1) To adjust the brightness, press ♦ or ♦ to move the cursor (▶) to BRIGHTNESS.





(2) Press .





Adjust the selected item:

(1) Press ♦, ♦, ₹, or \$ to adjust the item.





(2) Press (+).

The new setting appears in the VIDEO menu.





For details on each item, see "Description of adjustable items" below.

- 5 To adjust other items, repeat steps 3 and 4.
- 6 Press MENU to return to the original screen.

Description of adjustable items

Item	Press + or + to	Press + or + to
PICTURE	Decrease picture contrast and give soft color.	Increase picture contrast and give vivid color.
HUE	Make picture tones become purplish.	Make picture tones become greenish.
COLOR	Decrease color intensity.	Increase color intensity.
BRIGHTNES	Darken the picture.	Brighten the picture.
SHARPNESS	Soften the picture.	Sharpen the picture.

To restore the factory settings

Press RESET after displaying and selecting the VIDEO

All of the settings are restored to the factory settings.

Adjusting the color temperature (TRINITONE)

The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



- 1 Press MENU.
- 2 Press + or + to select @ and press .
- 3 Press + or + to select TRINITONE and press







4 Press + or + to select NTSC STD, MEDIUM, or HIGH and press .







Choose	To
HIGH	a cool (bluish) white.
MEDIUM	a neutral white.
NTSC STD	a warm (reddish) white.

Selecting the video mode (VIDEO)

The video mode feature allows you to choose three different modes of picture settings. Choose the one that best suits the type of program that you want to watch.

- 1 Press MENU.
- 2 Press + or + to select (III), and press (...).
- 3 Press + or + to select MODE, and press .
- 4 Press + or + to select STANDARD, MOVIE, or SPORTS mode, and press .







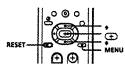
Choose	To
STANDARD	Receive a standard picture.
MOVIE	Receive a finely detailed picture.
SPORTS	Receive a vivid, bright picture.

5 Press MENU to return to the original screen.

· The settings for these modes can be adjusted in the VIDEO

Adjusting the sound (AUDIO)

You can adjust the quality of the TV sound to suit your taste. You can adjust the sound of the video input(s) as well.



- 1 Press MENU.
- 2 Press + or + to select 1, and press .







- 3 Select the item you want to adjust. For example:
 - (1) To adjust bass, press + or + to move the cursor (>) to BASS.





(2) Press .





- 4 Adjust the selected item:
 - (1) Press ♦, ♦, ♦, or ♦ to adjust the item.





(2) Press (1).

The new setting appears in the AUDIO menu.





For details on each item, see "Description of adjustable items" below.

- 5 To adjust other items, repeat steps 3 and 4.
- 6 Press MENU to return to the original screen.

Description of adjustable items

item	Press + or + to	Press + or + to	
TREBLE	Decrease the treble response.	Increase the treble response.	
BASS	Decrease the bass response.	Increase the bass response.	
BALANCE	Emphasize the left speaker's volume.	Emphasize the right speaker's volume.	

To restore the factory settings

Press RESET after displaying and selecting the AUDIO

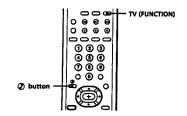
All of the settings are restored to the factory settings.

• When SPEAKER (page 27) is OFF and AUDIO OUT (page 28) is in the FIXED condition, the volume, TREBLE, BASS, and BALANCE cannot be adjusted.

Using audio effect (SURROUND)

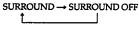
The audio effect (SURROUND) feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Audio effect is only effective for stereo programs.

Using the @ (audio effect) button



- 1 Press TV (FUNCTION).
- 2 Press Ø.

Each time you press the @ button, the display changes as follows:





Using the menu to set audio effect



- 1 Press MENU.
- 2 Press + or + to select →, and press ⊕.
- 3 Press + or + to select EFFECT, and press .







Press + or + to select the audio effect mode, and press 🕀.







5 Press MENU to return to the original screen.

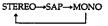
Selecting stereo or bilingual programs

(MTS)

The Multichannel TV Sound (MTS) feature allows you to enjoy stereo sound or Second Audio Programs (SAP) of your choice. The initial setting is stereo sound



Press MTS repeatedly to select STEREO, SAP, or



Choose	То
STEREO	Listen to stereo sound. The STEREO indicator on the projection TV lights up when a stereo broadcast is received.
SAP	Listen to bilingual programs. There is no sound when the SAP signal is not broadcasting.
MONO	Listen to monaural sound. Reduce noise during stereo broadcasts.

Note

· Stereo and SAP sounds are subject to program sources.

To set MTS using the menu

- 1 Press MENU.
- 2 Press ♦ or ♦ to select ♪, and press ⊕.
- 3 Press ♦ or ♦ to select MTS, and press ⊕.
- 4 Press ♦ or ₹ to select STEREO, SAP, or MONO.
- 5 Press MENU to return to the original screen.

Setting the speaker switch (SPEAKER)

You may switch off the projection TV speakers when. for example, you want to listen to the sound through a stereo system.

If you connect the Sony SAVA series speaker system to the AUDIO (VAR/FIX) OUT connectors, you can take advantage of the speakers' surround sound and super woofer mode. After making the connections (page 12), set SPEAKER to SAVA SPEAKER, then adjust SURROUND MODE or SUPER WOOFER MODE.



- 1 Press MENU.
- 2 Press + or + to select →, and press ⊕.
- 3 Press + or + to select SPEAKER, and press







4 Press + or + to select ON, OFF, or SAVA SP, and press \oplus .







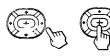
5 Press MENU to return to the original screen.

Choose	To
ÖN	Listen to the sound from the projection TV.
OFF	Turn off the projection TV speaker sound and listen to the projection TV's sound solely through the audio system speakers.
SAVA SP	Turn off the projection TV speaker sound and listen to the projection TV's sound through the Sony SAVA series speaker system. You can adjust volume, muting, surround modes, and super woofer mode with the remote control supplied with the projection TV.

To select surround sound or super woofer mode of the SAVA speaker system

After setting SPEAKER to SAVA SP, follow the procedure below.

Press + or + to select SURROUND MODE or SUPER WOOFER MODE, and press . For details on each option, refer to the operating instructions of the speaker system.

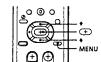




. This feature is only for Sony SAVA speaker system with an operation capability for KP-46C36, KP-48S35, KP-53S35, and KP-61S35.

Setting audio out (AUDIO OUT)

You can change AUDIO OUT to VARIABLE or FIXED when SPEAKER is set to OFF. AUDIO OUT is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press + or * to select J, and press ⊕.
- 3 Press + or → to select AUDIO OUT, and press







4 Press * or * to select VARIABLE or FIXED, and press (+).







VARIABLE: Sound output varied according to the projection TV settings. You can adjust the volume, bass, treble, and balance.

FIXED: Sound output is always fixed to a certain level. The volume, bass, treble, and balance are also fixed to the factory settings.

5 Press MENU to return to the original screen.

• If AUDIO OUT appears in gray, set SPEAKER to OFF.

Setting daylight saving time (DAYLIGHT SAVING)

If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

Daylight saving start

· After the first Sunday in April, set DAYLIGHT SAVING to YES. Current time setting (right column) automatically moves one hour ahead.

Daylight saving end

· After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time setting automatically moves one hour back.



- 1 Press MENU.
- 2 Press + or + to select @, and press .
- Press + or ♥ to select DAYLIGHT SAVING, and press (+).







4 Press + or + to select YES or NO, and press







Choose	То
YES	Set for daylight saving start.
NO	Set for daylight saving end.

5 Press MENU to return to the original screen.

Setting the clock (CURRENT TIME SET)

Setting the clock enables you to turn the projection TV on and off with the timer. Make sure to set daylight saving time first.



- 1 Press MENU.
- Press ♦ or ♦ to select ⊕, and press ⊕.
- 3 Press * or * to select CURRENT TIME SET, and press (+).







4 Make sure the cursor (▶) is to the left of "--:-- AM," and press (+).





5 Set the current day of the week and time.

(1) Press ★ or ♥ to set the day of the week, and press







(2) Set the hour and minutes in the same way as in step (1). When you press - after setting the minutes, the clock starts.





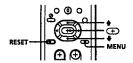


6 Press MENU to return to the original screen.

Setting the timer to turn the projection TV on and off

(ON/OFF TIMER)

You can set the projection TV to turn on and off at the times you specify. Make sure the clock is set correctly. If it is not, set the clock first (page 29).



- 1 Press MENU.
- 2 Press + or + to select ②, and press ①.
- 3 Press + or + to select ON/OFF TIMER, and press (+).







- 4 Press
 and enter the ON/OFF TIMER
 - (1) Press ♦ or ♦ to set the day(s), and press ⊕.

Each time you press ◆ or ◆, the days cycle as follows:

EVERY SUN-SAT→EVERY MON-FRI→ SUNDAY--...-SATURDAY--EVERY SUNDAY→...→EVERY SATURDAY









(2) Press ★ or ♦ to set the time (hour then minutes) that you want to turn on the projection TV, and press 🕦.





(3) Press • or • to set the time duration, and press

Each time you press +, the time duration increases by one hour up to a maximum of six







(4) Press ♦ or ♦ to select the channel, and press ⊕.







The TIMER indicator on the projection TV lights up.

- 5 To set the other program, press 🕁, and repeat step 4.
- 6 Press MENU to return to the original screen.

One minute before the projection TV turns off, the message "TV will turn off soon." is displayed on the screen.

To cancel the timer

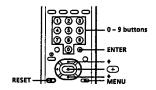
In step 3 or 4, press RESET.

· If you unplug the projection TV or a power interruption occurs, the ON/OFF TIMER setting will be erased. Reset the current time, then set the timer.

Customizing the channel names

(CHANNEL CAPTION)

You can add a caption for up to 12 channels. This feature allows you to easily identify which channel you are watching. You can make your own caption.



- 1 Press MENU.
- 2 Press + or + to select ♠, and press ↔.







3 Press + or + to select CHANNEL CAPTION, and press (+).







4 Press
and press + or + to select the channel that you want to caption, and press 🕀.









- 5 Enter the letters (up to four) to caption the
 - (1) Press ♦ or ♦ to select the first letter.

Each time you press ★ or ♥, the letter changes as follows:

0...9 ← A...Z ← &,/,_(blank space)



(2) Press (+).





- (3) Repeat steps (1) and (2) to select the remaining letters, and press .
- 6 Repeat steps 4 and 5 to caption other
- 7 Press MENU to return to the original screen.

After you customize the channel, the channel caption appears green.

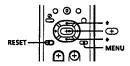
To erase a caption

In step 5, press RESET.

- If the CHANNEL CAPTION menu appears in gray, the projection TV is set to a video input, and you cannot select CHANNEL CAPTION. Press TV (black button) so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- . The channel caption feature is not available for the AUX input.

Blocking out a channel (CHANNEL BLOCK)

The channel block feature allows you to prevent children from watching unsuitable programs. You can block out two channels.



- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🕁.
- 3 Press + or + to select CHANNEL BLOCK, and press 🛨.







4 Press + or + to select program 1 or 2, and press (+).





5 Press + or + to select the channel which you want to block out, and press (+).





6 Press MENU to return to the original screen.

When you select the blocked channel, the message "BLOCKED" appears on the screen.



To cancel a CHANNEL BLOCK setting In step 4 or 5, press RESET.

Note

- Once you use CHANNEL BLOCK, Caption Vision and XDS of the blocked channel and the selected channel output from MONITOR OUT are also blocked out.
- 32-EN | Operations

Setting your favorite channels (FAVORITE CHANNEL)

The favorite channel feature allows your projection TV to memorize your favorite channels easily. If you set to AUTO, the last five channels you selected with the 0 - 9 buttons are automatically set as your favorite channels. If you want to input your own selection of channels, set to MANUAL.

Setting your favorite channels



- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🖜.
- 3 Press + or + to select FAVORITE CHANNEL, and press \oplus .







4 Press ⊕ and press + or + to select AUTO or MANUAL, and press (+).







If you select AUTO, skip steps 5 and 6. The last five channels you selected with the 0-9 buttons are automatically set as your favorite channels.

If you select MANUAL, the favorite channel numbers become white, indicating that favorite channels can be entered.

5 Press + or + to select a favorite channel number, and press (+).







6 Press + or + to select the channel that you want to set as your favorite channel, and press 🕦.







7 Press MENU to return to the original screen.

- If the FAVORITE CHANNEL menu appears in gray, the projection TV is set to a video input and you cannot select FAVORITE CHANNEL
- · If more than 90 seconds elapse after you press another button, the menu disappears automatically.
- The favorite channel feature is not available for the AUX input.

Selecting your favorite channel



The FAVORITE CHANNEL menu appears.





2 Press + or + to select the favorite channel you want to watch, and press . The selected channel appears on the screen.



To cancel the FAVORITE CHANNEL menu Press ♦ or ♥ to select "Exit," and press ⊕.

Setting video labels (VIDEO LABEL)

The video label feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 as



- 1 Press MENU.
- 2 Press + or + to select 🖶, and press ↔.
- 3 Press + or + to select VIDEO LABEL, and press 🕀.







4 Press + or + to select the input mode you want to label, and press .







Press + or + to select the label, and press







Each time you press ♦ or ♦, the label changes as

VIDEO 1 (for all models)

VIDEO 1
$$\leftrightarrow$$
 VHS \leftrightarrow 8 mm \leftrightarrow BETA

DBS \leftrightarrow DVD \leftrightarrow S VIDEO \leftrightarrow LD

VIDEO 2 (for KP-46C36 only)

VIDEO 2 \leftrightarrow VHS \leftrightarrow 8 mm \leftrightarrow BETA

DBS \leftrightarrow DVD \leftrightarrow S VIDEO \leftrightarrow LD

VIDEO 2 (for KP-48S35/53S35/61S35 only)

VIDEO 2 \leftrightarrow VHS \leftrightarrow 8 mm \leftrightarrow BETA

DBS \leftrightarrow DVD \leftrightarrow LD

VIDEO 3 (for KP-46C36 only)

VIDEO 3 \leftrightarrow VHS \leftrightarrow 8 mm \leftrightarrow BETA

DBS \leftrightarrow DVD \leftrightarrow LD

DBS \leftrightarrow DVD \leftrightarrow LD

6 Repeat steps 4 and 5 to label other input modes.

 If more than 90 seconds elapse before you press another button, the menu disappears automatically



Some programs are broadcast with Caption Vision To display Caption Vision, select either CC1, CC2, CC3, CC4. TEXT1. TEXT2. TEXT3, or TEXT4 from the menu CC1, CC2, CC3, or CC4 shows you on-screen version of the dialogue or sound effects of a program (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 shows you on-screen information presented using either half or the whole screen. It is not usually related to the program



- 1 Press MENU.
- 2 Press + or + to select \(\omega\), and press \(\omega\).







3 Press + or + to select the caption type, and press 🕀.







4 Press MENU to return to the original screen.

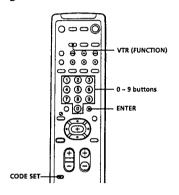
To display Caption Vision Press DISPLAY (See page 20 for details)

- · Poor reception of TV programs can cause errors in Caption Vision and XDS
- Captions may appear with a white box or other errors instead of a certain word.
- XDS, Caption Vision, and the status display cannot be used at
- For details on XDS, see page 20

Operating video equipment

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared remote sensor. For this operation, set the manufacturer's code number.

Setting the manufacturer's code



Press the CODE SET, VTR (FUNCTION), and 0 - 9 buttons to enter the manufacturer's code number (see the chart on page 35-36), then

For example, to operate a Sony 8 mm VCR, press CODE SET, VTR (FUNCTION), 3, 0, 2, and

VCR manufacturer code numbers

Manufacturer	Code number
Sony	301, 302, 303
Aiwa	338
Audio Dynamic	314, 337
Beil & Howell (M Wards)	330, 343
Brocsoruc	319
Canon	309, 308
Citizen	332
Craig	315, 302, 332
Curtis Mathis	304, 338, 309
Daewoo DBX	341, 312, 309
	314, 336, 337 304
Dimensia Emerson	
Fisher	319, 320, 316, 317, 318 330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Goldstar	332
Hitachi	306, 304, 305
Instant Replay	309, 308
JC Penny	309, 305, 304, 330, 314,
, ,	336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330,
	335
Magnavox	308, 309
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Panasonic Pentax	308, 309, 306, 307 305, 304
Philco	308, 309
Philips	308, 309
Pioneer	308
Quasar	308, 309
RCA/PROSCAN	304, 305, 308, 309, 311,
	312, 313
Realistic	309, 330, 328, 335, 324,
	338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323,
	324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Wards)	338, 327
Sylvania	308, 309, 338
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337 309, 308
Techrucs Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	330, 314, 336, 337
Zeruth	331

MDP manufacturer code numbers

Manufacturer	Code number
Sony	701
Kenwood	707
Magnavox	703
Maranz	702
Mitsubishi	702
Panasonic	704
Philips	703
Pioneer	702
RCA	702
Sanyo	70 6
Sharp	70\$
Yamaha	703

Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. This is because your equipment may use a code that is not included with this remote control. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:

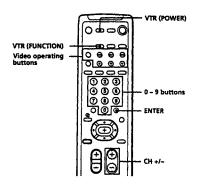
VHS VCR 301 (preset code for the supplied remote control)

8 mm VCR 302

Beta, ED Beta VCRs 303

 Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code number may revert to the factory setting and must be reset.

Operating video equipment



Use the video operating buttons on the remote control to operate the video equipment. Press VTR (FUNCTION) before operating the video equipment.

Operating a VCR	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To select a channel directly	Press the 0 - 9 buttons.
To change channels	Press CH +/
To record	Press ➤ while pressing ●. First release ►, then release ●.
To play	Press ►.
To stop	Press 2 .
To fast forward	Press ►►.
To rewind the tape	Press ◄◄.
To pause	Press II. To resume normal playback, press again
To search the picture forward or backward	Press ▶► or ◀◀ during playback. To resume normal playback, release the button.
To change input mode	Press TV/VTR,

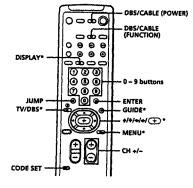
Operating an MDP	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To play	Press ►.
To stop	Press M.
To pause	Press II. To resume normal playback, press again.
To search the picture forward or backward	Keep pressing ▶▶ or ◄◄ during playback. To resume normal playback, release the button.
To search the chapter forward and backward	Press CH +/

Note

 If the video equipment does not have a certain function, the corresponding button on this remote control will not operate.

Operating a cable box or DBS receiver

You can program the supplied remote control to operate a cable box or DBS receiver. Follow the procedures below to set the manufacturer's code number in the remote control.



- The TV/DBS, GUIDE, DISPLAY, */*/*/ (**), and MENU buttons can be used only with a DBS receiver.
- 1 Turn off the equipment you want to set up, and press DBS/CABLE (FUNCTION).



2 Press the CODE SET, DBS/CABLE (FUNCTION), and 0 – 9 buttons to enter the manufacturer's code number (see the chart on the right column), then press ENTER. For example, to program your remote control to operate a Sony DBS receiver, press CODE SET, DBS/CABLE (FUNCTION), 8, 0, 1, and ENTER.



3 Press DBS/CABLE (POWER) to turn on the cable box or DBS receiver.



4 Use the cable box/DBS control buttons to check if the code number works.

For example, to operate a cable box or DBS receiver, you can use the DBS/CABLE (POWER), JUMP, CH +/-, 0 - 9 and ENTER buttons.

Note

 If the cable box or DBS receiver does not have a certain function, the corresponding button on this remote control will not operate.

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

If the remote control doesn't work

 First, try repeating the setup procedures using the other codes listed for your equipment.

Manufacturer code numbers (cable box)

Manufacturer	Code number		
Hamlin/Regal	222, 223, 224, 225, 226		
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218		
Oak	227, 228, 229		
Panasonic	219, 220, 221		
Pioneer	214, 215		
Scientific Atlanta	209, 210, 211		
Tocom	216, 217		
Zenith	212, 213		

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for the supplied remote control)
RCA	802

Notes

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you
 previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote control and you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

Troubleshooting

If the problem persists after trying the methods below, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- Make sure the power cord is connected securely.
- → Operate with the buttons on the projection TV.
- ➡ Insert the batteries in the remote control with the correct polarity.
- Replace the batteries with new ones if they are weak.
- → Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO1, 2, or 3 (for KP-41735 only).
- → Try another channel. It could be station trouble.
 → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

Poor or no picture (screen lit), good sound

- → Adjust PICTURE in the VIDEO menu. (page 23)
 → Adjust BRIGHTNESS in the VIDEO menu.
- (page 23) → Adjust convergence. (page 16)
- → Check antenna/cable connections. (page 6)
- → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition.
- (page 14)
 → Remove objects from the front of the projection TV.

Good picture, no sound

- → Press MUTING so that "MUTING" disappears
- from the screen. (page 19)

 Check the MTS setting in the AUDIO menu. (page 27)
- → Make sure SPEAKER is set to ON in the AUDIO menu. (page 27)
- → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

No color

- → Adjust the COLOR in the VIDEO menu. (page 23)
- Confirm that black and white program is not being broadcast.
- → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

Only snow and noise appear on the screen

- Check the CABLE setting in the SET UP menu. (page 17)
- → Check the antenna/cable connections. (page 6)
- Make sure the channel is broadcasting programs.
- → Press TV (black button) to change the input mode. (page 20)

Dotted lines or stripes

- Adjust the antenna.
- Move the projection TV away from noise sources such as cars, neon signs, and hairdryers.

Double images or ghosts

Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- → If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO
- → Check the CABLE setting in the SET UP menu. (page 17)

Cannot receive upper channels (UHF) when using an antenna

- → Make sure CABLE is OFF in the SET UP menu. (page 17)
- → Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 14, 18)

Cannot receive any channels when using

- → Make sure CABLE is ON in the SET UP menu. (page 17)
- → Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 14, 18)

Remote control does not operate

- Batteries could be weak. Replace the batteries. (page 13)
- → Make sure the projection TV's power cord is connected securely to the wall outlet.
- Press TV (FUNCTION) when operating your projection TV.
- → Are fluorescent lights too close to the projection TV? Move them at least 3-4 feet away from the projection TV.

Cannot gain enough volume when using a cable box

→ Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.

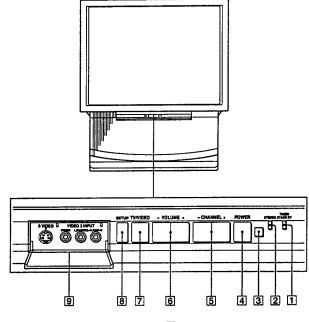
The projection TV needs to be cleaned

Clean the projection TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.

Index to parts and controls

This section briefly describes the buttons and controls on the projection TV and on the Remote control. For more information, refer to the pages next to each description.

Projection TV — Front



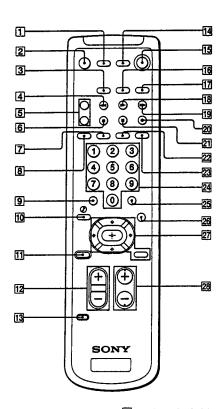
- 1 TIMER/STANDBY indicator (pages 19, 30)
- 2 STEREO indicator (page 27)
- 3 Remote sensor
- 4 POWER switch (page 14)
- [5] CHANNEL +/- buttons (page 14)

- 6 VOLUME +/- buttons (page 14)
- 7 TV/VIDEO button (page 14, 15)
- 8 SETUP button (page 14)
- S VIDEO/VIDEO 2 INPUT (VIDEO/AUDIO L(MONO)/R) jacks (for KP-46C36 only) (page 10)

40-EN

Additional Information

Remote control



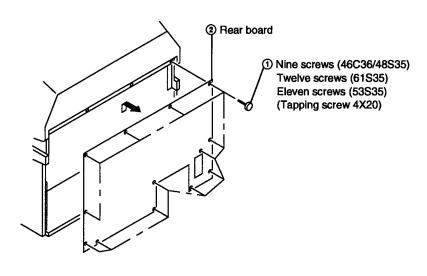
- 1 VTR (POWER) switch (page 36)
- 2 MUTING button (page 19)
- 3 VTR (FUNCTION) button (page 35)
- 4 FREEZE button (page 22)
- [5] TV/VTR CH +/- buttons (Yellow labelled button) (page 21)
- 6 POSITION button (page 22)
- 7 DISPLAY button (page 20)
- 8 SLEEP button (page 20)
- 9 JUMP button (page 19)
- 10 TV/DBS @ button (page 26, 37)
- 11 RESET button (page 23)
- 12 VOL (volume) +/- buttons (page 19)
- 13 CODE SET button (page 35)
- 14 DBS/CABLE (POWER) switch (page 37)
- 15 TV (POWER) switch (page 19)
- DBS/CABLE (FUNCTION) button (page 37)

- TV (FUNCTION) button (pages 15, 19)
- 18 SWAP button (page 22)
- 19 PIP button (page 21)
- 20 TV/VIDEO button (yellow labelled button) (page
- 21 AUDIO button (page 21)
- 22 TV/VIDEO button (page 20)
- 23 TV button (black button) (page 20)
- 24 0 9 buttons (page 16)
- 25 ENTER button (page 16)
- 26 MTS/GUIDE button (page 27, 37)
- 27 Menu operation buttons (page 15)
 - MENU button
 - **+/+/**+/+/ buttons
 - button
- 28 CH (channel) +/- buttons (pages 16, 19)

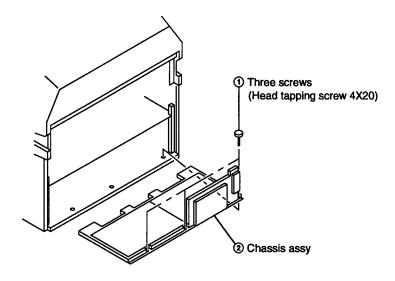
Additional Information | 41-EN

SECTION 2 DISASSEMBLY

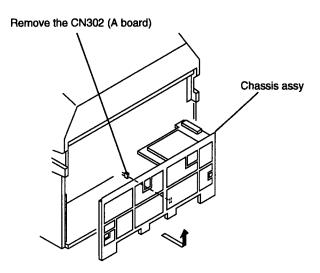
2-1. REAR BOARD REMOVAL



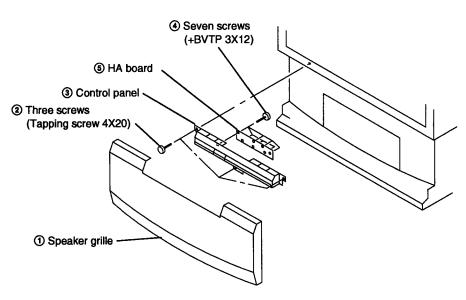
2-2. CHASSIS ASSY REMOVAL



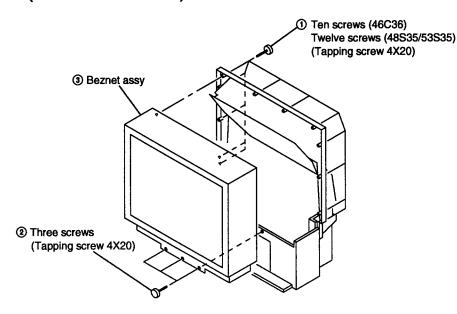
2-3. SERVICE POSITION



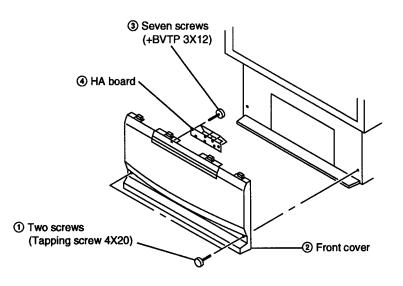
2-4-1. HA BOARD REMOVAL (KP-46C36)



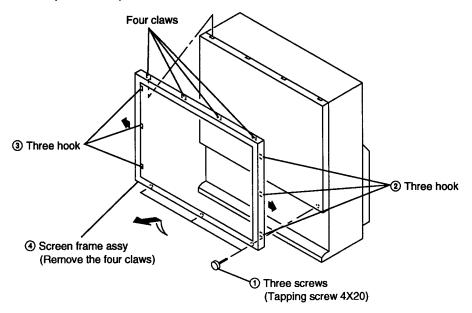
2-5-1. BEZNET ASSY REMOVAL (KP-46C36/48S35/53S35)



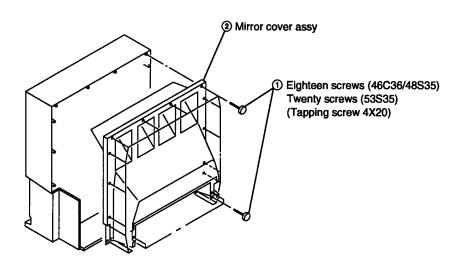
2-4-2. HA BOARD REMOVAL (KP-48S35/53S35/61S35)



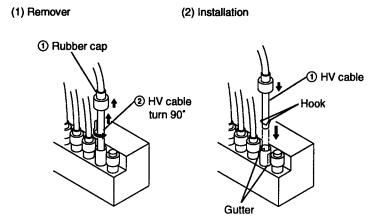
2-5-2. SCREEN FRAME ASSY REMOVAL (KP-61S35)



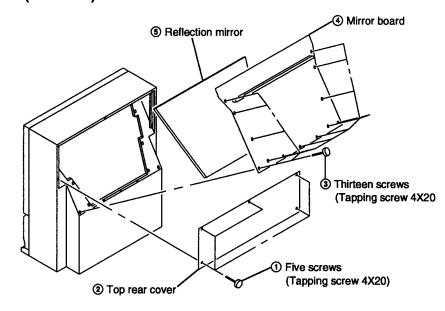
2-6-1. MIRROR COVER ASSY REMOVAL (KP-46C36/48S35/53S35)



2-7. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

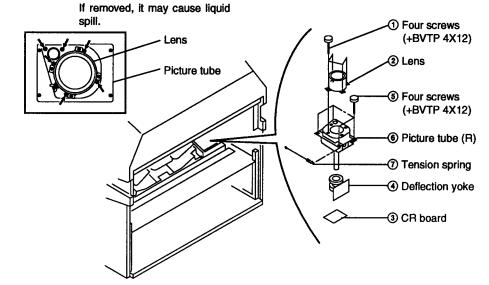


2-6-2. REFLECTION MIRROR REMOVAL (KP-61S35)



2-8. PICTURE TUBE REMOVAL

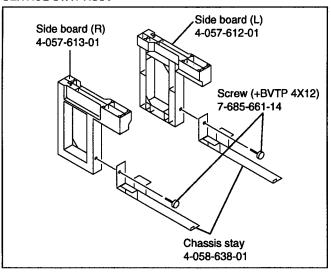
CAUTION: Removing the arrow-marked screws is strictly inhibited.



- 26 -

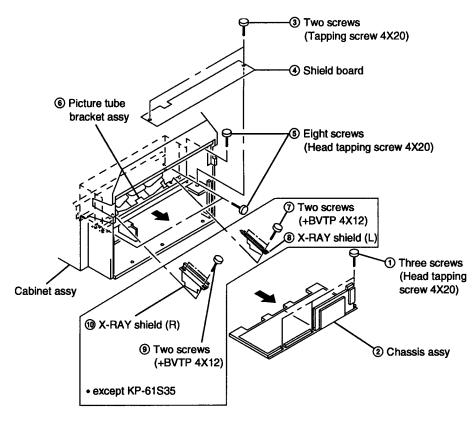
2-9-1. SERVICE STAY ASSY HOW TO USE AND CARRY BACK SERVICE STAY ASSY.

SERVICE STAY ASSY



2-9-2. PICTURE TUBE BRACKET ASSY REMOVAL

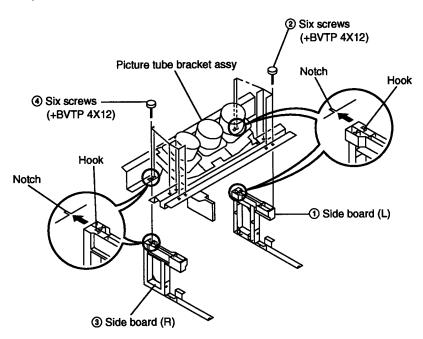
- Disassemble HA board and speaker cord.
- Disassemble all the harness from purse lock.



- 1) Remove ① three screws (head tapping screw 4X20) and pull out ② chassis assy from cabinet assy.
- 2) Remove ③ two screws (tapping screw 4X20) and remove ④ shield board.
- 3) Remove (a) eight screws (head tapping screw 4X20) and release (a) picture tube bracket assy from cabinet assy.
 - 4) Remove ⑦ two screws (+BVTP 4X12) and remove ⑧ X-RAY shield (L).
 - 5) Remove (a) two screws (+BVTP 4X12) and remove (b) X-RAY shield (R).

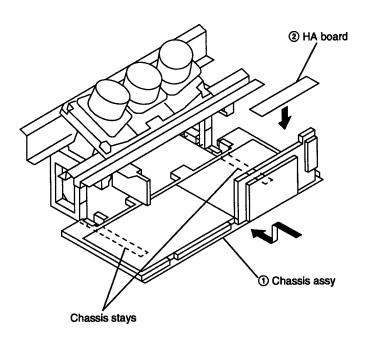
 except KP-61S35

2-9-3. SETTING OF SERVICE STAY ASSY. (KP-46C36/48S35/53S35)

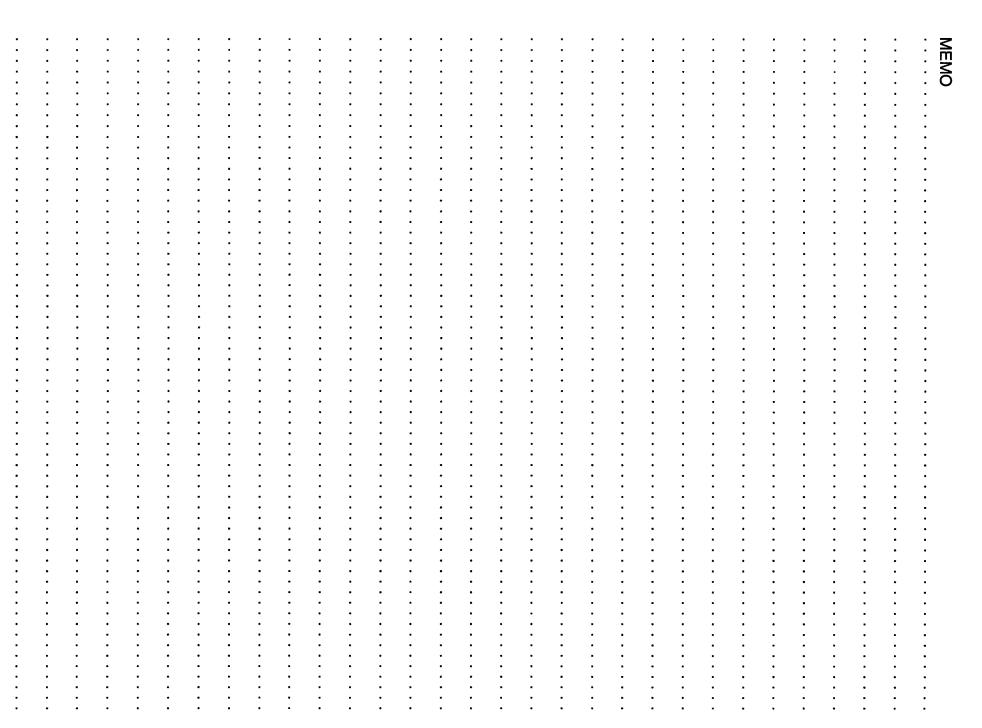


- 1) Lift up picture tube bracket assy and fit the hook of ① side board (L) to the notch on the assy. Then fix then with ② six screws (+BVTP 4X12).
- 2) Lift up picture tube bracket assy and fit the hook of ③ side board (R) to the notch on the assy. Then fix then with ④ six screws (+BVTP 4X12).

2-9-4. INSTALL A CHASSIS ASSY



- 1) Put ① chassis assy on chassis stays.
- 2) Put @ HA board on ① chassis assy.
- 3) You can carry the chassis assy in this condition.



SECTION 3 SET-UP ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 Set in service mode. Use VP on the service mode menu to show only the green colour. Press the Commander Menu button (convergence) and output the test signal. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point. Use RG-RH from the service mode menu to set to green and red. Disply the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap. Use RG-BH from the service mode menu to set to red and blue. Disply the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap. 				FOCUS block Scanning line visible. A Minimize both A and B.
 DEFLECTION YOKE TILT ADJUSTMENT Set in service mode. Set to receive the monoscope signal. Use VP on the service mode menu to show only the green colour. Loosen the deflection yoke set screw and align the tilt of the deflection yoke so that the bars at the centre of the monoscope pattern are horizontal. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT. The tilt of the deflection yoke for red is aligned with RG-RH on the service mode menu, and the tilt on the deflection yoke for blue is aligned with RG-BH on the service menu, is aligned the same as was done for green. 	Monoscope pattern			4-pole magnet Deflection yoke Neck Assy Anode cap

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
4-POLE MAGNET ADJUSTMENT 1. Set in service mode.			4-pole magnet	Use the center dot
 Set to receive the dot pattern signal. Place the caps on the red and blue lens so that only the green colour is showing. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle. 				x:y=1:2
DEFOCUS ADJUSTMENT				
 Receive the crosshatch signal. Adjust the Blue FOCUS knob so that the crosshatch pattern vertical line width is as in the figure on the right. Blue only defocus Adjustment. 	Crosshatch pattern		FOCUS VR • BLUE	• Focus adjustment point a: b=1:4

ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y136A), all circuit adjustments can be made.

NOTE: Test Equipment Required.

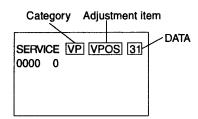
- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

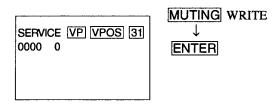
- 1. Standby mode. (Power off)
- 2. $\boxed{\text{DISPLAY}} \rightarrow \boxed{5} \rightarrow \boxed{\text{VOL}(+)} \rightarrow \boxed{\text{TV POWER}}$ on the Remote Commander. (Press each button within a second.)

SERVICE MODE ADJUSTMENT



- 3. The CRT displays the item being adjusted.
- 4. Press 1 or 4 on the Remote Commander to select the adjustment item.
- 5. Press 3 or 6 on the Remote Commander to change the data.
- 6. Press 2 or 5 on the Remote Commander to select the category.
- 7. If you want to recover the latest values press 7 then **ENTER** to read the memory.
- 8. Press MUTING then ENTER to write into memory.

SERVICE ADJUSTMENT MODE MEMORY



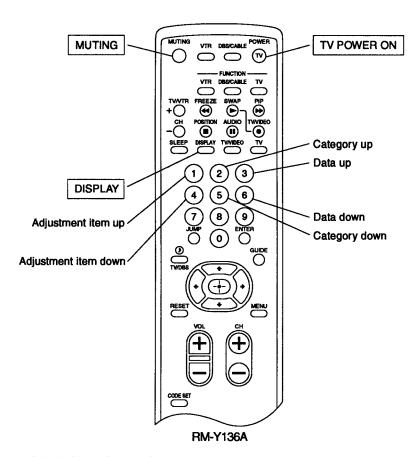
- 8. Press 8 then ENTER on the Remote Commander to initialize.
- 9. Turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
- 2. Turn the power switch ON and set to Service Mode.
- 3. Call the adjusted items again and confirm they were adjusted.

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3. ADJUST BUTTONS AND INDICATOR



4. SERVICE MODE LIST

VΡ

Category	Adjustment item	Standard data	Note	Device
VP	VPOS		V SHIFT	
	VSIZ		V SIZE	
	VCOM	0	HV-COMP-V	
	VLIN	7	VLIN	
	VSCO	7	S CORRECTION	
	HPOS	7	н ѕнігт	
1	HSIZ		H SIZE	
	PAMP		PIN AMP	

Category	Adjustment item	Standard data	Note	Device
VP	UPIN	7	UPPER CORNER PIN	
'-	LPIN	7	LOWER CORNER PIN	
	PPHA	7	HTRAPEZOID	
	AFC	2	AFC LOOP GAIN	
1	VBOW	7	VBOW	
ĺ	VANG	7	VANGLE	
ļ	REF	3	AKB REFERENCE	
	GDRV	_	GREEN DRIVE	
	BDRV		BLUE DRIVE	
	GCUT		GREEN CUT OFF	
	BCUT		BLUE CUT OFF	
	SCON		SUB CONTRAST	
	SHUE		SUB HUE	
	SCOL		SUB COLOR	
	SBRT		SUB BRIGHTNESS	
	SSHP	7	SUB SHARPNESS	
	GMMA	1	GAMMA LEVEL	
	CDM2	0	COUNT DOWN MODE 2	
	DPIX	1	DYNAMIC PICTURE	
	Y-DC	1	DC TRANSMISSION RATIO	
	ABLM	1	ABL MODE	
	AXIS	0	R-Y, G-Y AXIS	
ŀ	NOTC	0	CTRAP	
	CROM	7	CTRAPFO	
1	TOT	0	C TOT FILTER	
	PREL	3	PRE/OVER LEVEL	
	SHPF	1	SHARPNESS FO	
	RON		RED ON/OFF	
1	GON		GREEN ON/OFF	
	BON		BLUE ON/OFF	
	DCOL		DYNAMIC COLOR	
	CDMD	0	V COUNT DOWN	
	LBLK	13	H BLK WIDTH LEFT SIDE	
	RBLK	13	H BLK WIDTH RIGHT SIDE	

AP

Category	Adjustment item	Standard data	Note	Device
AP	SVOL	0	SUB VOLUME	
	SBAL	0	SUB BLANCE	
	SBAS	7	SUB BASS	
	STRE	7	SUB TREBLE	

Category	Adjustment item	Standard data	Note	Device
RG	GH CENT		GREEN H SENT	
	GH SKEW		GREEN H SKEW	
	GH BOW	ļ	GREEN H BOW	
	GH 4BOW		GREEN H 4TH BOW	}
	GH SIZE		GREEN H SIZE	
	GH LIN	ļ !	GREEN H LINEARITY	
	GH MSIZ		GREEN H MID SIZE	
l	GH MLIN	}	GREEN H MID LINEARITY	
	GH KEY		GREEN H KEY	
	GH SSKW		GREEN H SUB SKEW	
	GH MPIN		GREEN H MID PIN	
	GH PIN		GREEN H PIN	
	GH SBOW		GREEN H SUB BOW	
}	GH MBOW		GREEN H MID BOW	
	GH 4PIN		GREEN H 4TH PIN	
	GH 4BOW		GREEN H 4TH BOW	
	GV CENT		GREEN V CENT	
	GV SKEW		GREEN V SKEW	
	GV BOW		GREEN V BOW	
	GV SIZE		GREEN V SIZE	
	GV LIN		GREEN V LINEARITY	
	GV MSIZ		GREEN V MID SIZE	
	GV MKEY		GREEN V MID KEY	
	GV KEY		GREEN V KEY	
	GV SSKW		GREEN V SUB SKEW	
	GV MPIN		GREEN V MID PIN	
į	GV PIN		GREEN V PIN	
	GV SBOW		GREEN V SUB BOW	
İ	GV WAVE		GREEN V WAVE	
	GV 4PIN		GREEN V 4TH PIN	
	RH CENT		RED H CENT	
	RH SKEW		RED H SKEW	
i	RH BOW		RED H BOW	
l	RH 4BOW		RED H 4TH BOW	
ì	RH SIZE		RED H SIZE	
ļ	RH LIN		RED H LINEARITY	
İ	RH MSIZ		RED H MID SIZE	
	RH MLIN		RED H MID LINEARITY	
	RH KEY		RED H KEY	
	RH SSKW		RED H SUB SKEW	
ļ	RH MPIN		RED H MID PIN	
ļ	RH PIN		RED H PIN	
1	RH SBOW		RED H SUB BOW	
	RH MBOW		RED H MID BOW	

Category	Adjustment item	Standard data	Note	Device
RG	RH 4PIN		RED H 4TH PIN	
	RH 4BOW		RED H 4TH BOW	
	RV CENT		RED V CEVT	
	RV SKEW	İ	RED V SKEW	i
	RV BOW		RED V BOW	
	RV SIZE		RED V SIZE	
	RV LIN		RED V LINEARITY	
	RV MSIZ		RED V MID SIZE	
	RV MKEY		RED V MID KEY	
	RV KEY		RED V KEY	
	RV SSKW		RED V SUB SKEW	
	RV MPIN		RED V MID PIN	
	RV PIN		RED V PIN	
	RV SBOW		RED V SUB BOW	
	RV WAVE		RED V WAVE	
	RV 4PIN		RED V 4TH PIN	
	RV WING		RED V WING	
	BH CENT		BLUE H CENT	
	BH SKEW		BLUE H SKEW	
	BHBOW		BLUEHBOW	
	BH 4BOW		BLUE H 4TH BOW	
	BHSIZE		BLUE H SIZE	
	BHLIN		BLUE H LINEARITY	
	BH MSIZ		BLUE H MID SIZE	
	BHMLIN		BLUE H MID LINEARITY	
	BH KEY		BLUE H KEY	
	BH SSKW		BLUE H SUB SKEW	
	BH MPIN		BLUE H MID PIN	
	BHPIN		BLUE H PIN	
	BH SBOW		BLUE H SUB BOW	
ĺ	BHMBOW		BLUE H MID BOW	
	BH 4PIN		BLUE H 4TH PIN	
İ	BH 4BOW		BLUE H 4TH BOW	
	BV CENT		BLUE V CENT	
	BV SKEW		BLUEVSKEW	
	BVBOW		BLUEVBOW	
	BV SIZE BV LIN		BLUE V SIZE	
	BV LIN BV MSIZ		BLUE V LINEARITY BLUE V MID SIZE	
	BV MSIZ BV MKEY		BLUE V MID SIZE BLUE V MID SIZE	
	BV MKEY			
İ	BVSSKW		BLUE V KEY BLUE V SUB SKEW	
	1			
	i	}		
	BV MPIN BV PIN		BLUE V SUB SKEW BLUE V MID PIN BLUE V PIN	

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Category	Adjustment item	Standard data	Note	Device
RG	BV SBOW		BLUE V SUB BOW	
	BV WAVE		BLUE V WAVE	
	BV 4PIN		BLUE V 4TH PIN	
	BV WING		BLUE V WING	

CC

Category	Adjustment item	Standard data	Note	Device
CC	CRIH	9	CRI COUNT HIGH	
	CRIL	2	CRI COUNT LOW	
	CR2L	2	CRI COUNT LOW(F2)	
	CCDI	3	NO CCD INT COMPARE	
	CRIP	7	CRI & PARITY ERROR	
	CRIT	0	CRI TIME CONSTANT	
	CSB1	2	SYNC SLICE BIAS 1	
	CSB2	5	SYNC SLICE BIAS 2	
	CCBD	4	C SYNC BACKPORCH DET	
	CCFD	7	C SYNC FRONTPORCH DET	
	CREP	136	CRI SIGNAL END POSITION	
	CSEP	176	START BIT END POSITION	
	CRBD	8	CRI BACKPORCH DET	
	CRFD	9	CRI FRONTPORCH DET	
	CSSD	3	STROBE WINDOW ST DLY	
	CSED	9	STROBE WINDOW ED DŁY	
	CSBS	12	START BIT THRESHOLD	
	CDSD	8	DATA START DELAY	
	CCDS	9	CAPTION DT THRESHOLD	
	CHMK	38	H SYNC MASK WIDTH	
	CHSY	144	H SYNC VCO COUNT	

OP

	Category	Adjustment item	Standard data	Note	Device
Γ	OP	DISP		OSD POSITION	

ID

Category	Adjustment item		dard ita	Note	Device
		S	46C		
ID	ID0	25	25	MODEL ID#0	
	IDI	21	55	MODEL ID#1	
	ID2	31	31	MODEL ID#2	

Category	Adjustment item	Stan da	dard ita	Note	Device
		S	46C		
ID	ID3	00	00	MODEL ID#3	
	ID4	155	155	MODEL ID#4	
	ID5	177	177	MODEL ID#5	
	ID6	198	198	MODEL ID#6	
	ID7	66	66	MODEL ID#7	

PP

Category	Adjustment item	Standard data	Note	Device
PP	BGHP	-	PIP H POSITION	
	BGVP	-	PIP V POSITION	
	MAHP	-	P&P MAIN H AQUISITION	
	MAVP	-	P&P MAIN V AQUISITION	
	SAHP	-	P&P SUB H AQUISITION	
	SAVP	-	P&P SUB V AQUISITION	
	DECS	-	S DECODER REGISTERS	
	DECM	-	M DECODER REGISTERS	
	DIS	-	DISPLAY SETTING	
	BHSZ	-	BORDER H SIZE	
	BVSZ	-	BORDER V SIZE	
	VPED	-	V OFFSET	
	UPED	-	U OFFSET	

PS

Category	Adjustment item	Standard data	Note	Device
PS	PIPH		PIP H POSITION	
l	PIPV	1	PIP V POSITION	
	PMVD	16	PIP V PULSE DELAY(M)	
	PIVD	22	PIP V PULSE DELAY(I)	
İ	PCON		PIP CONTRAST(I)	
	FRMY	7	PIP FRAME Y LEVEL	
	IPER	0	PIP PEDESTAL R-Y(I)	
	IPEB	0	PIP PEDESTAL B-Y(I)	
	IHUE		PIP SUB HUE	
	ICOL	}	PIP SUB COLOR	
	PHDL	3	PIP H PULSE DELAY	
Į	PYSD	0	PIP SELECT DELAY	
	PYDL	0	PIP Y DELAY	
	PCPS	0	PIP CLP	
	PCPF	0	PIP CLP CYCLES	
	PSEL	0	PIP SELDOWN	

Category	Adjustment item	Standard data	Note	Device
PS	PPLL	0	PIPPLL	
	CHRI	1	PIP INPUT POLARITY	
	CHRO	0	PIP OUTPUT POLARITY	

MC

Category	Adjustment item	Standard data	Note	Device
МС	MSCN	-	P&P MAIN SUB CONTRAST	
!	MSHU	-	P&P MAIN SUB HUE	
	MSCL	-	P&P MAIN SUB COLOR	
1	MUPD	-	P&P MAIN U OFFSET	
	MVPD		P&P MAIN V OFFSET	
	MDLY	-	P&P MAINY DELAY	
	MBGR	-	P&P MAIN SCP CONTROL(1)	!
	MBGF	-	P&P MAIN SCP CONTROL(2)	

IC

Category	Adjustment item	Standard data	Note	Device
IC	SSCN	-	P&P SUB SUB CONTRAST	
	SSHU	-	P&P SUB SUB HUE	
Ì	SSCL	-	P&P SUB SUB COLOR	
1	SUPD	-	P&P SUB U OFFSET	
	SVPD	-	P&P SUB V OFFSET	
l	SDLY	-	P&P SUB Y DELAY	ļ
l	SBGR	-	P&P SUB SCP CONTROL(1)	
	SBGF	-	P&P SUB SCP CONTROL(2)	
	PAFC	-	PIP AFC LOOP GAIN	
}	PTOT	-	PIP CHROMA TOT FILTER	
]	PYDR	-	PIPY DRIVE	
	PYDC	1 -	PIPDCTRAN	
1	PSHP	-	PIP SHARPNESS FO	ł
į	PDPI	-	PIP DYNAMIC PICTURE	
	PSYS	-	PIP COLOR SYSTEM	
Ì	PXTL	-	PIP X' TAL	
ł	PLOP	-	PIP COLOR LOOP	}

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
CONVERGENCE ADJUSTMENT				
•When replacing the deflection yoke, always perform "DEFLECTION YOKE TILT ADJUSTMENT" before adjusting the convergence.				
Adjustment procedure VP MAIN RG GH (SUB), RG GV (SUB) RG RH(SUB), RG RV (SUB) RG BH (SUB), RG BV (SUB)				
GREEN REGISTRATION ADJUSTMENT V-SHIFT adjustment	Monoscope pattern or Crosshatch pattern		<vp menu=""> VP VPOS</vp>	vpos -
V-LINEARITY adjustment			VP VSIZ	VSIZ
V-SIZE, V-CORRECTION adjustment While tracking, adjust so that the lattice intervals for VSIZ and VSCO are equal.			VP VLIN VP VSCO	VLIN VSCO

	EQUIPMENT	MEASUREMENT	ADJUSTMENT	ILLUSTRATION AND SHAPE
ADJUSTMENT ITEM AND PROCEDURE	AND SIGNAL	POSITION	LOCATION	AND NUMBER
• H-SHIFT adjustment			VP HPOS	HPOS +
H-SIZE adjustment Finely adjust with SUB MSIZ.			VP HSIZ	HSIZ +
PIN-AMP adjustment Finely adjust with SUB MPIN.			VP PAMP	PAMP (((())))
UPPER/LOWER-CORNER PIN adjustment Correct the screens top and bottom bow line. However, if this adjustment is overdone, distortion may occur with the PIN-AMP adjustment that can not be re-adjusted.			VP UPIN	UPIN →
Note: The PIN-AMP adjusts the overall screen from top to bottom, but the UPPER/LOWER-CORNER PIN adjustments have large movement in the top and bottom sections, so be careful.			VP LPIN	LPIN -
V-BOW, V-ANGLE adjustment Correct the tilt and bow of the vertical line at the center of the screen.			VP VBOW	VBOW →
			VP VANG	VANG The state of the state of

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN SUB ADJUSTMENT SCREEN CENTER SECTION GREEN VERTICAL LINE ADJUSTMENT 1. Finely adjust with GH CENT, GH BOW, GH SKEW. Adjust by watching out for the RGH CENT screen center section.			<rg-gh menu=""> GH CENT GH SKEW GH BOW</rg-gh>	Watch out only for the GH CENT center point. Watch the vertical center line.
2. GH 4TH BOW adjustment Correct the corner distortion that could not be adjusted away with the GH BOW adjustment.			GH 4BOW	GH CENT GH SKEW GH BOW GH 4BOW GH 4BOW

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
SCREEN CENTER SECTION GREEN HORIZONTAL LINE ADJUSTMENT			<rg-gv menu=""></rg-gv>	
Finely adjust the center position of the vertical line at the center of the screen with GV CENT.			GV CENT	Watch the horizontal center line. Watch out only for the RGV CENT center point.
				GV CENT
Correct the tilt and bow of the horizontal line at the center of the screen with GV SKEW and GV BOW.			GV SKEW GV BOW	GV SKEW
				GV BOW
GREEN SIZE AND LINEARITY ADJUSTMENT			<rg-rh menu=""></rg-rh>	1
Balance the sizes at both sides of the center section of the screen with GH MLIN. Balance the sizes on both end sections of the screen with GH LIN.			GH MLIN GH LIN	- MLIN,
 While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the center of the screen are symmetrical left and right. 				

	EQUIPMENT	MEASUREMENT	ADJUSTMENT	ILLUSTRATION AND SHAPE
ADJUSTMENT ITEM AND PROCEDURE	AND SIGNAL	POSITION	LOCATION	AND NUMBER
 GREEN HORIZONTAL SIZE ADJUSTMENT Adjust with GH MSIZE so that the sizes of both ends and of both sides of the center section of the screen are equal. Adjust with GH SIZE so that the horizontal sizes of both ends and of both sides of the center section of the screen are equal. While tracking, adjust with GH MSIZ and GH SIZE so that the lattice intervals for the horizontal line section of the center section of the screen are equal and so that the horizontal size is the prescribed value. If M LIN is changed when the GH MSIZ and GH SIZE adjustment is complete, adjust again while tracking. 			<rg-gh menu=""> GH MSIZ GH SIZE</rg-gh>	MSIZ SIZE GH MUN GH MSIZ GH UN
 With just the H SIZE adjustment in MAIN, if there is no need to adjust GH SIZE in SUB this can save power. GREEN VERTICAL LINEARITY ADJUSTMENT 1. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical. 			<rg-gv menu=""> GV LIN</rg-gv>	

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 GREEN VERTICAL SIZE ADJUSTMENT Adjust with GV MSIZE so that the sizes for the top and bottom sections of the screen and for both sides of the center section of the screen are equal. Set the vertical size to the prescribed value with GV SIZE. Adjust GV MSIZ and GV SIZE watching the vertical line at the center section of the screen. While tracking, adjust with GV MSIZ and GV SIZE so that the lattice intervals for the vertical line section of the center section of the screen are equal and so that the vertical size is the regulation value. If GV LIN is out of place when the GV MSIZ and GV SIZE adjustment is complete, adjust again while tracking. If there is no need to adjust GV SIZE in SUB with just the V SIZE adjustment in MAIN, this can save power. 			<rg-gv menu=""> GV MSIZ GV SIZE</rg-gv>	MSIZ SIZE GV LIN GV SIZE GV MSIZ
 GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT 1. Adjust with GH SSKW so that the tilt of the vertical lines at both ends of the screen is symmetrical left and right. 2. Adjust with GH KEY so that there is no tilt in the vertical lines at both ends of the screen. 3. If there is a tilt on either the left or right after the GH KEY adjustment, adjust while tracking. 			<rg-gh menu=""> GH SSKW GH KEY</rg-gh>	SS KW KEY

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 GREEN HORIZONTAL QUATERNARY ADJUSTMENT 1. Correct the quaternary distortion with GH 4PIN. 2. While balancing, correct the quaternary distortion of both end sections of the screen with GH 4SBO. 3. While tracking, adjust with GH 4PIN and GH 4SBO. 			<rg-gh menu=""> GH 4PIN GH 4BOW</rg-gh>	4 PIN () 4 BO
GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT 1. Adjust with GH MBOW so that the pin asymmetry at both sides of the center section of screen is symmetrical. 2. Adjust with GH SBOW so that the bow at both end sections of the screen is symmetrical left and right. 3. While tracking, adjust with GH MBOW and GH SBOW so that the bow of vertical lines on the entire screen is symmetrical left and right.			<rg-gh menu=""> GH MBOW GH SBOW</rg-gh>	M BOW S BOW

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT			<rg-gh menu=""></rg-gh>	
 Adjust the pin distortion at both sides of the center section of the screen with GH MPIN. Adjust the pin distortion at both end sections of the screen with GH PIN. While tracking, adjust with GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing. If there is asymmetrical pin distortion after the GH MPIN and GH PIN adjustments, adjust with GH MBOW and GH SBOW while tracking. 			GH MPIN GH PIN GH MBOW GH SBOW	M PIN DIN PIN
With just the PIN AMP adjustment in MAIN, if there is no need to adjust GV PIN in SUB, this can save power. GREEN VERTICAL WAVE (TERTIARY DISTORTION)			<rg-gv menu=""></rg-gv>	GH MBOW GH PIN GH SBOW GH MPIN
ADJUSTMENT				
Take the screen top and bottom horizontal lines with GV WAVW and find the secondary and quaternary waveform.			GV WAVE	GV WAVE
There is KEY distortion after the GV WAVW adjustment, so adjust with GV WAVW and GV KEY while tracking.			GV KEY	GV KEY GHMPIN

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN VERTICAL QUATERNARY DISTORTION ADJUSTMENT			<rg-gv menu=""></rg-gv>	
Correct the quaternary distortion of the horizontal lines at the top and bottom sections of the screen with RGV 4PIN.			GV 4PIN	GV 4PIN
 Since there is no 4SBOW for vertical correction, there will be a slight imbalance, but adjust to eliminate the distortion from the horizontal line at either the top or the bottom of the screen. In many cases, the horizontal lines at the top and bottom sections of the screen are not straight lines after the adjustment. As long as the secondary distortion is mild enough that it can be corrected with the PIN adjustment, this is OK. 				
GREEN VERTICAL TRAPEZOIDAL DISTORTION			<rg-gv menu=""></rg-gv>	
1. Adjust with GV SSKW so that the tilt of the horizontal lines at the top and bottom sections of the screen is symmetrical about			GV SSKW	GV SSKW
the center position horizontal line. 2. Adjust with GV MKEY so that there is no tilt for the line sections at both sides of the horizontal lines at the center section of the			GV MKEY	
stream. 3. Adjust with GV KEY so that there is no tilt for the horizontal lines at the top and bottom sections of the screen. 4. While tracking, adjust with GV MKEY and GV KEY so that there is no tilt for the horizontal lines on the entire screen.			GV KEY	MKEY KEY
5. If the tilt is unbalanced after the GV MKEY and GV KEY adjustment, adjust again with GV SSKW.			GV SSKW	GV SSKW GV MKEY GV MKEY

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (SECONDARY DISTORTION) ADJUSTMENT			<rg-gv menu=""></rg-gv>	
Correct the asymmetrical pin distortion at the top and bottom sections of the screen with GV SBOW.			GV SBOW	RGV SBOW
GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT			<rg-gv menu=""></rg-gv>	
 Adjust the pin distortion for both side sections and the center of the screen with GV MPIN. Adjust with GV PIN so that the horizontal lines at the top and bottom sections of the screen are straight lines. Adjust with GV MPIN and GV PIN so that there is no curve in the horizontal lines on the entire screen. 			GV MPIN GV PIN	MPIN 1 PIN
After the adjustments in Items 1-3, adjust the tracking with GV SBOW, GV MPIN, and GV PIN.			GV SBOW	GV SBOW GV PIN

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN AND RED REGISTRATION ADJUSTMENT (RRH, RRV) 1. Receive a cross-hatch signal. 2. Adjust so that the red lines lay on the green lines. Adjust with the same procedure as the GREEN SUBadjustment. Notes: 1. The main correction is not carried out during red registration adjustment. 2. Beware. The green adjustment items can be changed by mistake. 3. Unlike for green, adjust within the range -127 ~+128.	Cross-hatch pattern			
GREEN AND BLUE REGISTRATION ADJUSTMENT (RBH, RBV) 1. Receive a cross-hatch signal. 2. Adjust so that the blue and green lines are on top of each other. Notes: 1. The main correction is not carried out during RED registration adjustment. 2. Beware. The GREEN and RED adjustment items can be changed by mistake.	Cross-hatch pattern			

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT	ADJUSTMENT	ILLUSTRATION AND SHAPE
AGC ADJUSTMENT 1. Receive an off-air signal. 2. Adjust the AGC VR (TU 1001) so that there is no snow noise and cross-modulation. WHITE BALANCE ADJUSTMENT 1. Receive the monoscope pattern signal and adjust the picture quality with the menu. 2. Adjust service mode SBRT so that the signal 10 IRE section barely glows.	And Signal. Aonoscope pattern Il White pattern		PICTUREminimun <rgb menu=""> RGB SBRT RGB GCUT RGB BCUT PICTUREminimun RGB GDRV RGB BDRV PICTUREmaximum</rgb>	AND NUMBER

SECTION 4 SAFETY RELATED ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
[G BOARD] HV REGULATION CIRCUIT CHECK AND ADJUSTMENT		☐ marked parts C514, C516, C515,	⊠ C514	Remove the cap off from the unused terminal and connect a static voltmeter
When replacing the following components marked with on the schematic diagram always check HV regulation, and if necessary readjust. OPERATION CHECK 1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. 2. Power on the set. 3. Receive dot signal pattern. (PICTURE and BRIGHT to minimum) 4. Check that the HV static voltmeter is reading 31.00±1.0kVdc. HV Regulation adjustment 1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. 2. Power on the set. 3. Receive dot signal pattern. (PICTURE and BRIGHT to minimum) 4. If anode voltage is 32kV or higher, replace C514 of 390PF/2kV with that of 680PF/2kV, and check if the voltage is within the standard range. 5. If anode voltage is 30kV or lower, replace C514 of 390PF/2kV with that of 100PF/2kV, and check if the voltage is within the standard range.		T502 (PMT), T503 (HLT), T504 (FBT), DEFLECTION YOKE, IC651		G BOARD -COMPONENT SIDE- C514 R561 CN505 R512 CN505

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
[G BOARD] HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT (☑ R514, R561) When replacing the following components marked with ☑ on the schematic diagram, always check hold-down voltage and if necessary re-adjust. OPERATION CHECK 1. Remove CN651 connecter. 2. Short-circuit across TP-PROT (R692) and ground. 3. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. 4. Connect a 220k variable resistor, across pin ③ and pin ⑤ of IC651 set to maximum value. 5. Power on the set. 6. Receive dot signal pattern. (PICTURE and BRIGHT to minimum) 7. Gradually lower the value of the variable resistor and check that the hold-down circuit operates at a static voltmeter reading of 33.5±1.0kVdc when the raster disappears. HV HOLD-DOWN ADJUSTMENT 1. Repeat steps ⑥ ~ ⑦ as above. 2. If hold down voltage is 34.5kV or higher, remove R514, mount a resistor (390kΩ, 1/4W : RN) onto R561 instead, and check again if the hold-down voltage is within the standard range. 3. If hold-down voltage is 32.5kV or lower, mount a resistor (220kΩ, 1/4W : RN) onto R561, and check again if the hold-down voltage is within the standard range. NOTE : Please finish the adjustment as soon as possible.				G BOARD -COMPONENT SIDE- CS14 R561 R514 CN505 R512 CN505 CN505

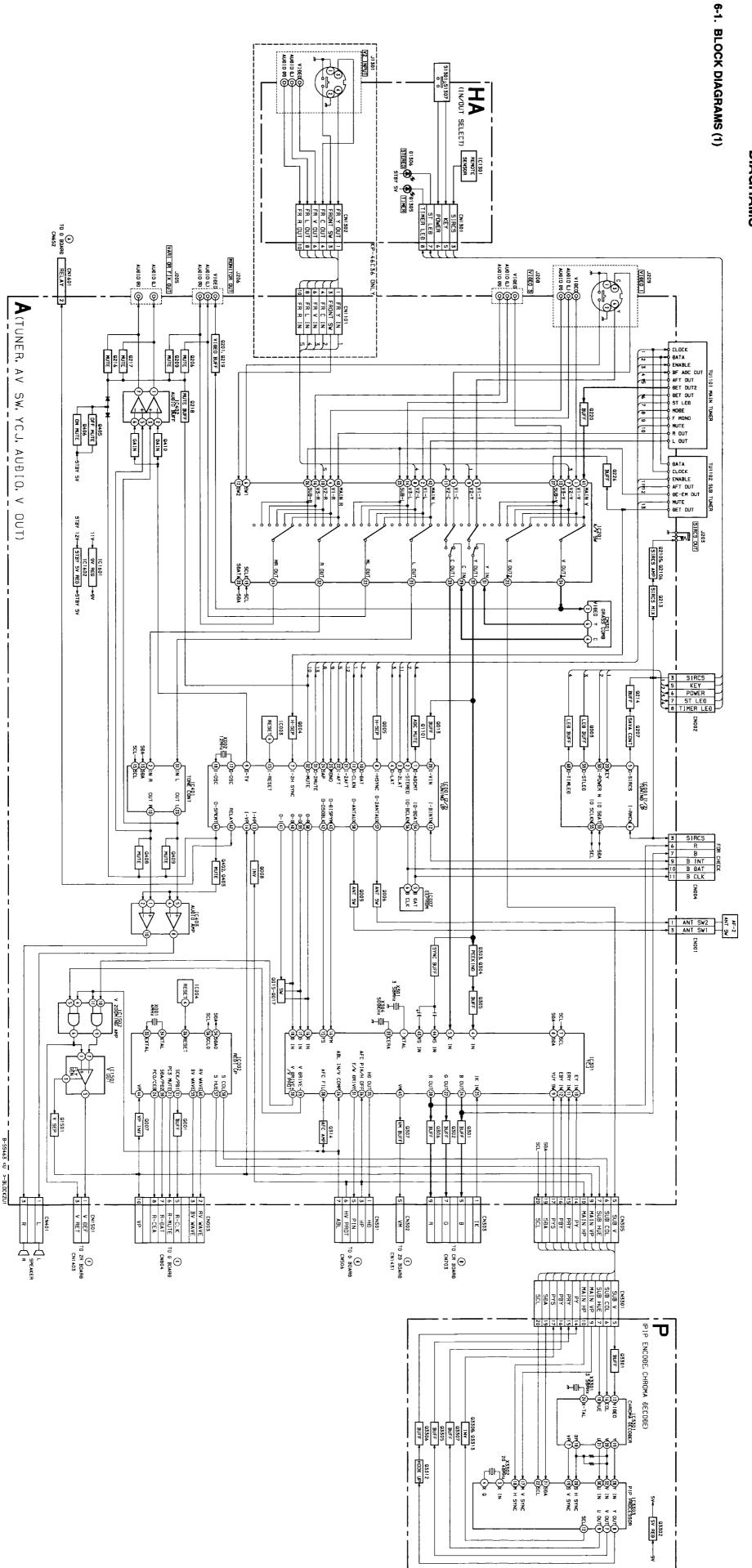
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION		ON AND SHAPE IUMBER
[G BOARD]					
+B MAX VOLTAGE CONFIRMATION				G BOARD	-COMPONENT SIDE-
 The following adjustments should always be performed when replacing IC651. Supply 130VAC to variable autotransformer. Input dot signal. Set the PICTURE control and the BRIGHTNESS controls to minimum. Confirm if the voltage of G BOARD TP135V is less than 137.0 Vdc. If step 4 is not satisfied, replace IC651 and repeat above steps. 				C514 R6 0- -0 Q -0 Q -0 Q -0 Q -0 Q -0 Q -0 Q -0 Q	R514 CN505
 Remove CN651 connector. Connect a voltmeter to TP135V, and TP (PROT) and ground. Connect a 220kΩ variable resistor, across pin ③ and pin ⑤ of IC651, and set to maximum value. Supply 120VAC to variable autotransformer. Set PICTURE and the BRIGHTNESS controls to minimum. Gradually turn the 220kΩ variable register, and check if OVP works properly when the voltage of TP135V is between 139.0~151.5V. 					

SECTION 5 CIRCUIT ADJUSTMENT

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 Input a color-bar signal. Adjust AGC VR of TU1101 so that snow, noise, and cross-modulation disapper from the picture. Verify picture quality on each channel. 				
 BER DISPLAY ADJUSTMENT (DISP) Receive cross-hatch signal. Set to Service mode. Select "DISP", and adjust so that the blank spaces on the both sides of picture bar become equal. Write the data into memory. MUTING → ENTER 				A A=B B
SUB-CONTRAST ADJUSTMENT (SCON) 1. Receive the color-bar signal. 2. PICTURE : maximum COLOR : minimum BRIGHTNESS: minimum RON1 GON0 BON0 3. Set to service mode. 4. Connect an oscilloscope between ⑤ pin of CN004 (A Board) and ground. 5. Select "SCON" and adjust so that the wave from level is 1.50±0.1Vp-p. 6. Write the data into memory MUTING → ENTER				1.50±0.1Vp-p

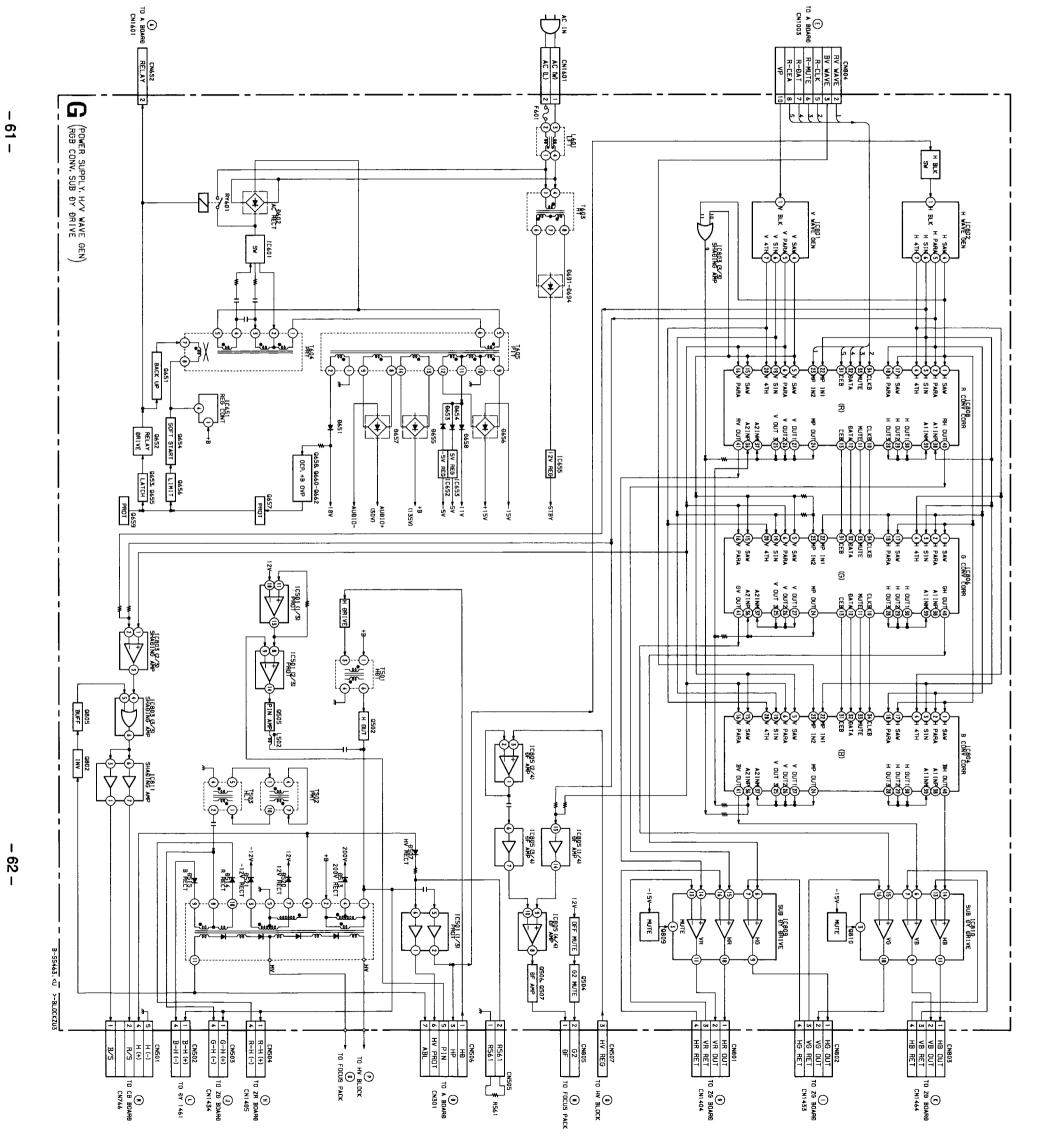
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
P IN P POSITION ADJUSTMENT (PIPH, PIPV) 1. Receive monoscope pattern signal. 2. Set to P IN P mode, and to Service mode. 3. Check the SUB PICTURE position. 4. Select "PIPH" and "PIPV" and adjust H/V position to the specified level. 5. Write the data into memory MUTING→ENTER				H: 7.00 ± 0.25sq V: 5.25 ± 0.25sq
P IN P SUB CONTRAST ADJUSTMENT (PCON) 1. Receive color-bar signal. 2. PICTURE : maximum COLOR : minimum BRIGHTNESS: minimum 3. Set to Service mode. 4. Connect an oscilloscope between ⑨ pin CN303 (A Board) and ground. 5. Select "P CON" and adjust so that waveform level is 1.4±86 Vp-p. 6. Write the data into memory. MUTING → ENTER				1.4±899 1.4±899 ———————————————————————————————————

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
PIN P SUB HUE, SUB COLOR ADJUSTMENT (IHUE, ICOL) 1. Receive the color-bar signal. 2. PICTURE : maximum COLOR : center BRIGHTNESS: center 3. Set to Service mode. 4. Connect an oscilloscope between ⑤ pin of CN303 (A Board) and ground. 5. Select "IHUE" and ICOL, adjust them to have VB1=VB4 and VB2=VB3 in the waveform levels. 6. Raise "ICOL" data 1 steps higher. 7. Write the data into memory. MUTING → ENTER	AND SIGNAL		ADJUSTMENT LOCATION	



56 |

- 58 -



刀

NC V. RET

R-H (+) NC NC R-H (-)

FASTON FASTON

ANT SW (AS-2F)

SELECT)

(PIP ENCOBE, CHROMA BECOBE)

00

99

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5 KEY 6 POWER 7 ST LEÐ 8 TIMER LEÐ

N#. 873

¥

V. ĐEF NC V. RET NC

G-H (+) NC NC G-H (-)

1K2 1K1 E 9V E B

(TUNER AV SW.

4 YCJ ADIBUA KOY W

CNOO4 IIP :B TO B-S FOR CHECK

(KP-46C36

SIRCS
E
KEY
POWER
ST LED
TIMER LED

MAIN C 1 1 MAIN C
E 2 2 E
MAIN Y 3 3 MAIN Y
E 4 4 E
SUB V 5 5 SUB V
SUB COL 6 6 SUB COL
SUB HUE 7 7 SUB HUE
9 8 8 9 9V
MAIN Y.P 9 9 MAIN Y.P
MAIN H.P 1010 MAIN H.P
E 111 E
SUB.V.P 1212 SUB.V.P
E 13 13 E
PY 1414 PY
PRY 15 15 PRY
PBY 1614 PBY
PYS 17 17 PYS
2CH BLK 1918 2CH BLK
SOA 1919 SOA
SCL 2020 SCL

:FASTON

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ΦιΦιΦι

CN303 98 REB .S-HICRO TO CR CN703

V901

63 -

8 A

FOCUS PACK

82 **(9)**

92 Œ

+B IN

:# CN653

POWER SUPPLY, H/V WAVE GEN., RGB

CONV., SUB BY BRIVE

9

B-H (+) NC NC NC B-H (-)

1 HG.OUT 2 VG.OUT 3 VG.RET 2 2 3 4 HG.RET 4

AC NO 1

R561 R561

PACK

2 4

HV BLOCK

- 66

6-3. CIRCUIT BOARDS LOCATION

6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- All capacitors are in μF unless otherwise noted. pF: μμ are not indicated except for electrolytics and tantalums
 All resistors are in ohms.
 kΩ = 1000Ω, MΩ = 1000kΩ
 Indication of resistance, which does not have one for power, is as follows .F: μμF 50WV or l lums.

for rating electrical

- Pitch. 5 mm
 Rating electrical power: 1/4W

 nonflammable resistor
 two : fusible resistor.
- : fusible resistor.

 \(\triangle : internal component. \)

 \(\triangle : panel designation and adjustment for repair. \)

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

 \(\triangle : earth-chassis. \)

s components identified by old H in this basic schematic diagram have been equily factory-selected for each set in order to satisfy regulations regarding

- X-ray radiation.

 Should replacement be required, replace only with the value originally used.

 Should replacement be required, replace only with the value originally used.

 When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment untill the specified value is achieved.

 (Refer to R514, R561 and C514 adjustment on Page 49 to 51)

 When replacing the part in below table, be sure to perform the related adjustment.
- C514, C515, C516, IC651, T502, T503, T504, DY C507, C513, D501, D504, D507, IC301, IC501, IC651, R502, R514, R516, R517, R539, R560, R561, T502, T503, T504, DY Part replaced () HV HOLD-DOWN (R514, R561) Adjustment (►)
 HV Regulator
 (C514)

E06A

IK1 E E

CNS01 10P WHT :S-MICRO

RV WAVE 2 2 RV WAVE BV WAVE 3 3 BV WAVE E 4 4 E

E 2 2 E
HP 3 3 HP
E 4 4 E
PIN 5 S PIN
HV PROT 4 4 HV PROT
ABL 7 7 ABL
-15V 8 8 -15V
E 9 9 E
+15V 10 10 +15V

ANT 1 1 ANT
ANT 2 2 ANT
ANT 3 3 ANT
NC 4 4 NC
AUDIO (-) 5 5 AUDIO (-)
AUDIO (-) 6 4 AUDIO (-)
AUDIO (+) 7 7 AUDIO (+)
AUDIO (+) 8 AUDIO (+)
E 9 9 E
NC 1010 NC

-5V 1 1 -5V
RELAY 2 2 RELAY
E 3 3 E
STBY 12V 4 4 STBY 12V
5V 5 5 5 5V
E 6 6 E
11V 7 7 7 11V
E 0 8 E
NC 9 9 NC
135V 10 10 10 135V

ĐY (H)

SUB DY

EY (V)

₹

G FOCUS PACK

DY (B)

ĐY 1461

Voltage variations may be noted due to normal production.
All voltages are in V

Measurement impossibility.

Circled numbers are waveform reference.

B + line
B - line
signal path (RF) duction tolerances

Note: The symbol I display is on the component side. The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified. The symbol 1 indicate fast operating fuse. Replace only with fuse of same rating as marked.

Les composants identifiés per un tramé et une marque ≜ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié. Le symbole - indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

Reference information
RESISTOR : RN N
RC : FPRD N
. FUSE N
: RW N
: RS N
RB N
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. SOLID

NONFRAMMABLE CARBON

NONFRAMMABLE FUSIBLE

NONFRAMMABLE WIREWOUND

NONFRAMMABLE METAL OXIDE

NONFRAMMABLE CEMENT

ADJUSTMENT RESISTOR

MICRO INDUCTOR

TANTALUM

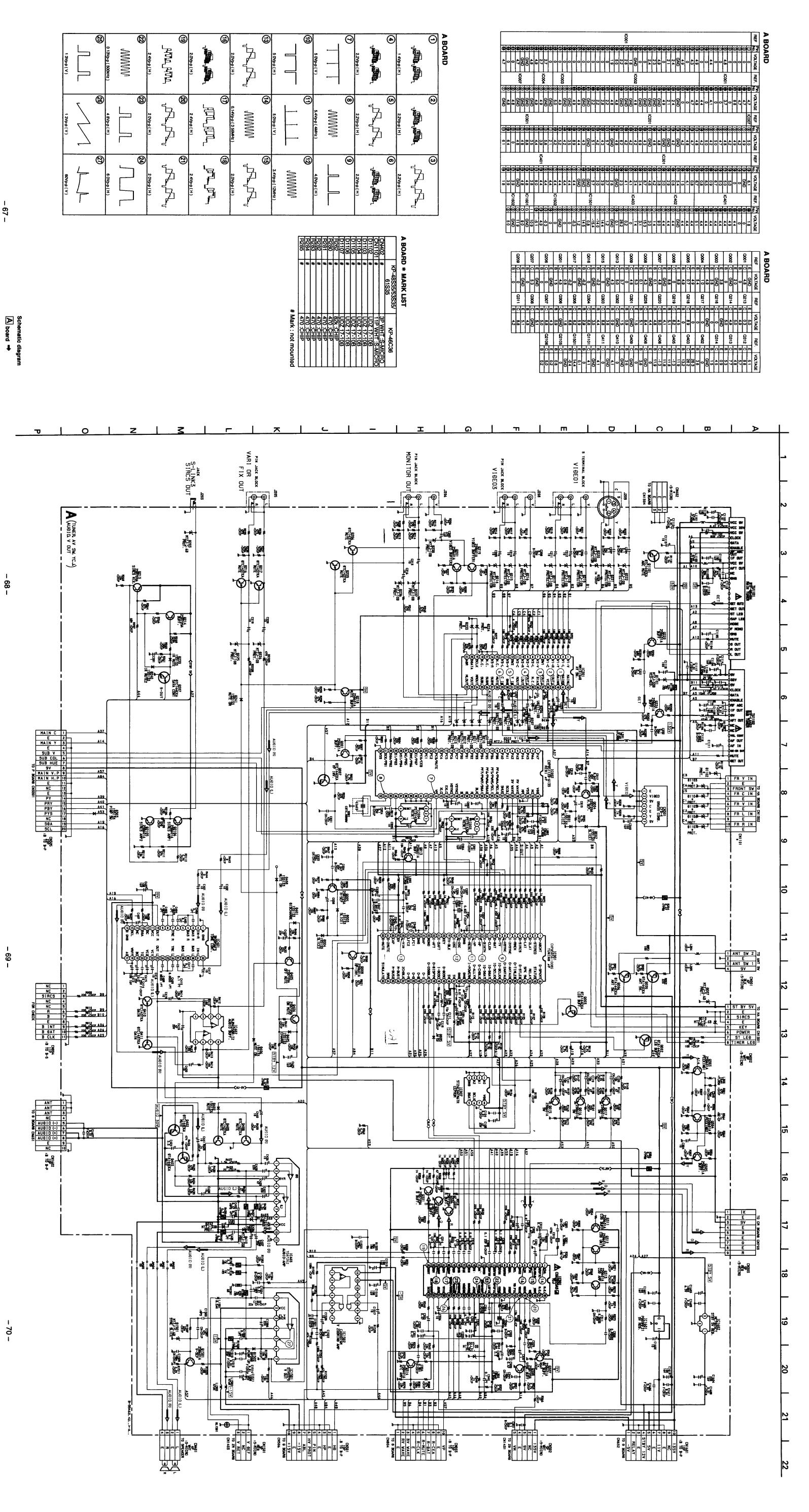
STYROL

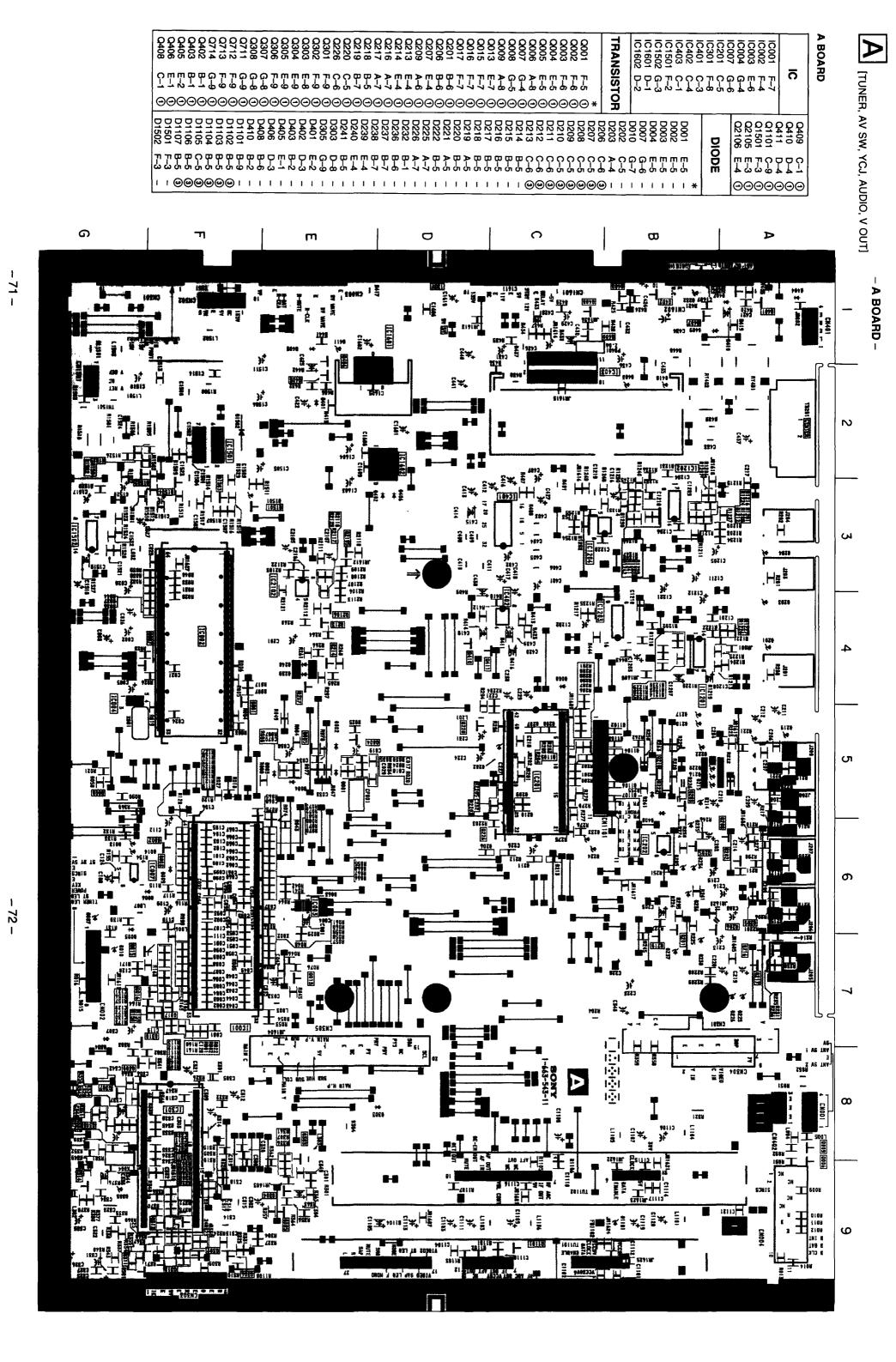
POLYPROPYLENE MYLAR METALIZED POLYPROPYLENE METALIZED POLYPROPYLENE BIPOLAR HIGH TEMPERATURE HIGH RIPPLE

_		
nam		
æ		
으		
semiconductor		
S.		
3		
SIK		
SCr		
	name of semiconductors in silk scr	name of semiconductors in silk scr

Pri	minal n	Terminal name of seprinted circuit (*)	miconductor	Terminal name of semiconductors in silk screen printed circuit (*)
	Device	Printed symbol	Terminal name	Circuit
 Θ	Transistor	T	Collector Base Emitter	C C
 @	Transistor	1	Collector Base Emitter	
 9	Diode		Cathode Anode	∘ ≯ l∘
 •	Diode	T	Cathode Anode (NC)	→ ∘
 ©	Diode	J	Cathode Anode (NC)	Ĵ.
 •	Diode	-	Common Anode Cathode	•

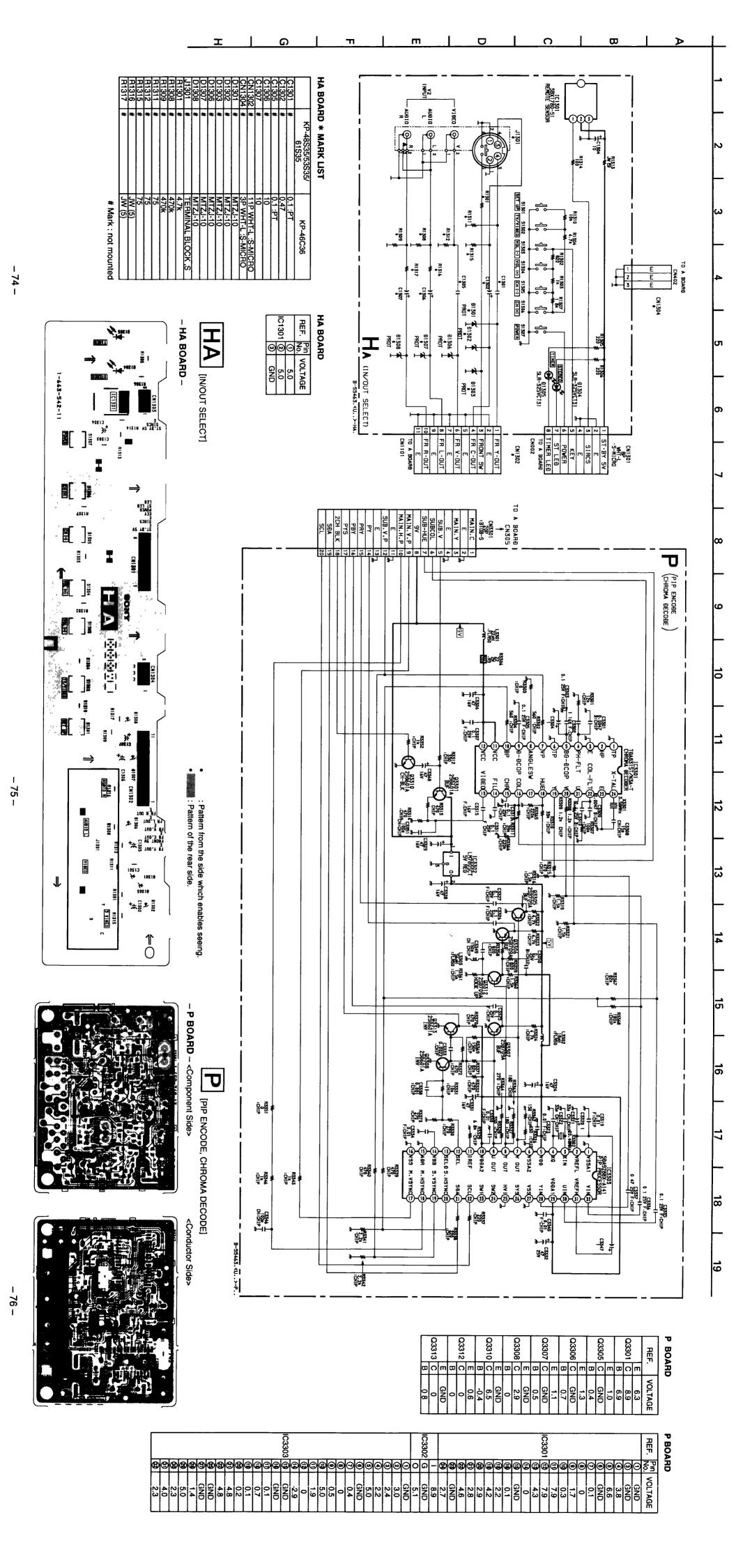
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semiconducto	Discrete semiconductot	Transistor	Transistor	Transistor	Transistor	Transiator	Transistor	Transistor	Transistor (FET)	Transistor (FET)	Transistor (FET)	Diode	Diode	Diode	Diode	Dюde	Diode	Diode	Diode	Diode	Transistor	_ ~	Device	printed circuit (*
rs that are not a	niconductot	1	j	J	J	3	‡	#		T		1	4		4		1	J	-]	-	Printed symbol	cuit (*)
semiconductors that are not actually used are included)		ර දැන් මේ මේ නිම් (නිම්)	(82) B1 E1 E2 C1 C2	E2 B1 E1 C2 C1(B2)	C1 82 62 E1 81 C2	01 82 E2 E1 81 C2	C1 82 E2 E1981 C2	C2 81 E1 E2 82 C1	□ Source □ Drain □ Gate	Drain Source Gate	Drain Source Gate	Common Cathode Cathode	Common Cathode Cathode	Common Anode Anode	Common Anode Anode	Common Anode Cathode	Common Anode Cathode	Cathods Anode (NC)	Cathode Anode (NC)	Cathode Anode	Collector Base Emitter	Collector Base Emitter	Terminal name	
d) Ver13		€1(82)Ç OCZ	BIO CIO OCZ	E10 (5 45)	810 () O E2 C10 0 C2	EIO ÓEZ) 18 18 18	810 002 810 002 810 002		l		0	~	٩	<u>.</u>	of the state of th	•	٥٦	→ ∘	∘≯ ∘		ئ ئ	Circuit	

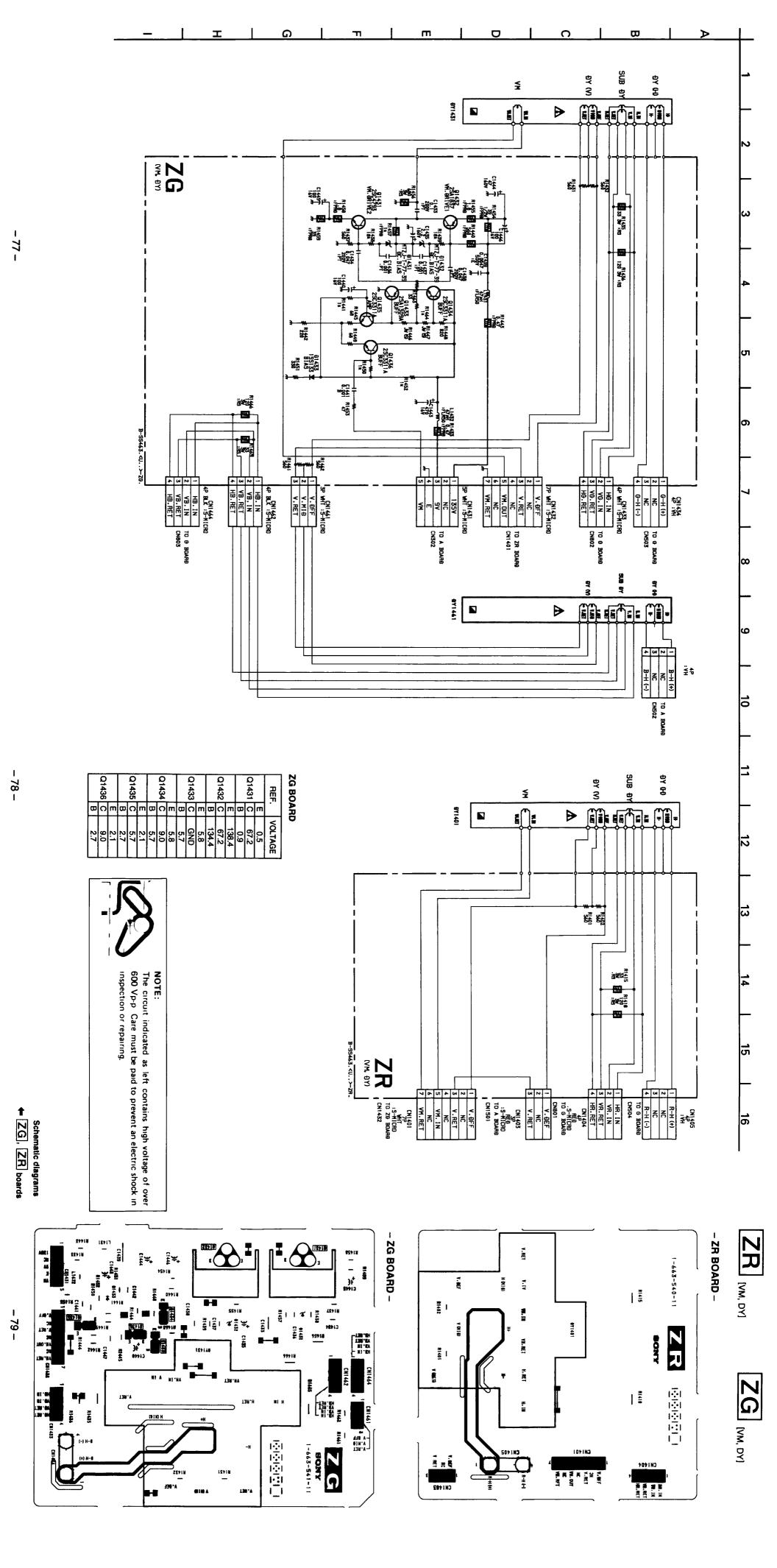




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Schematic diagrams
HA, P boards →

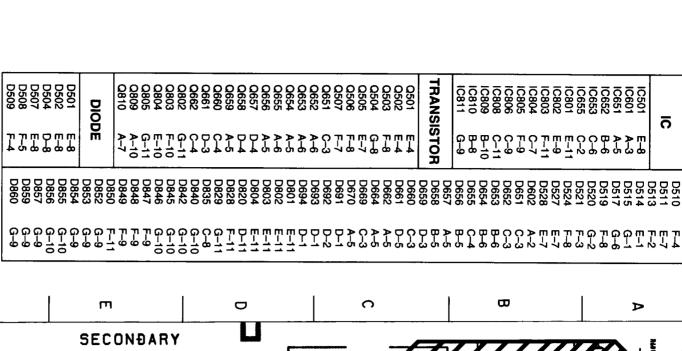






- G BOARD -

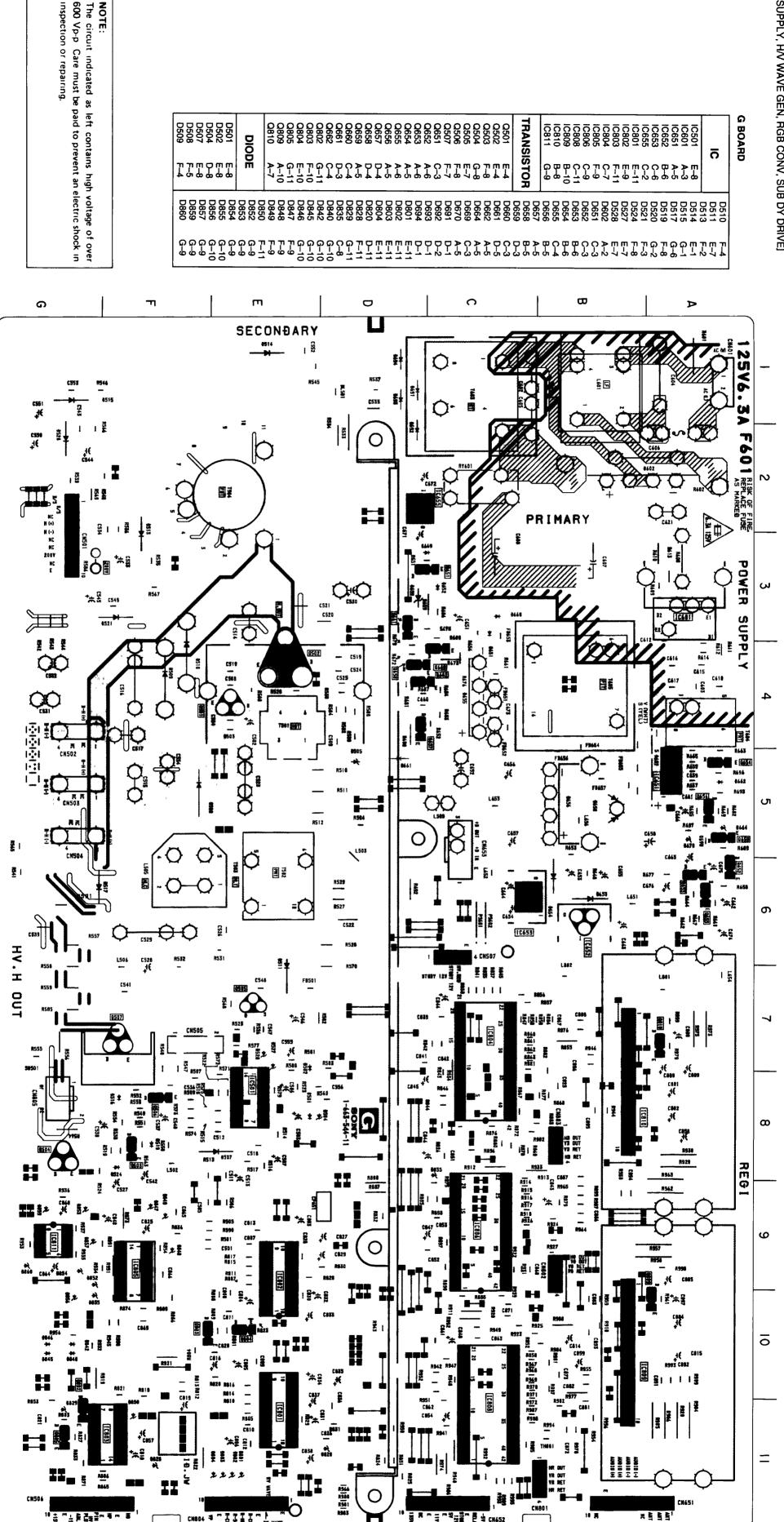
G BOARD



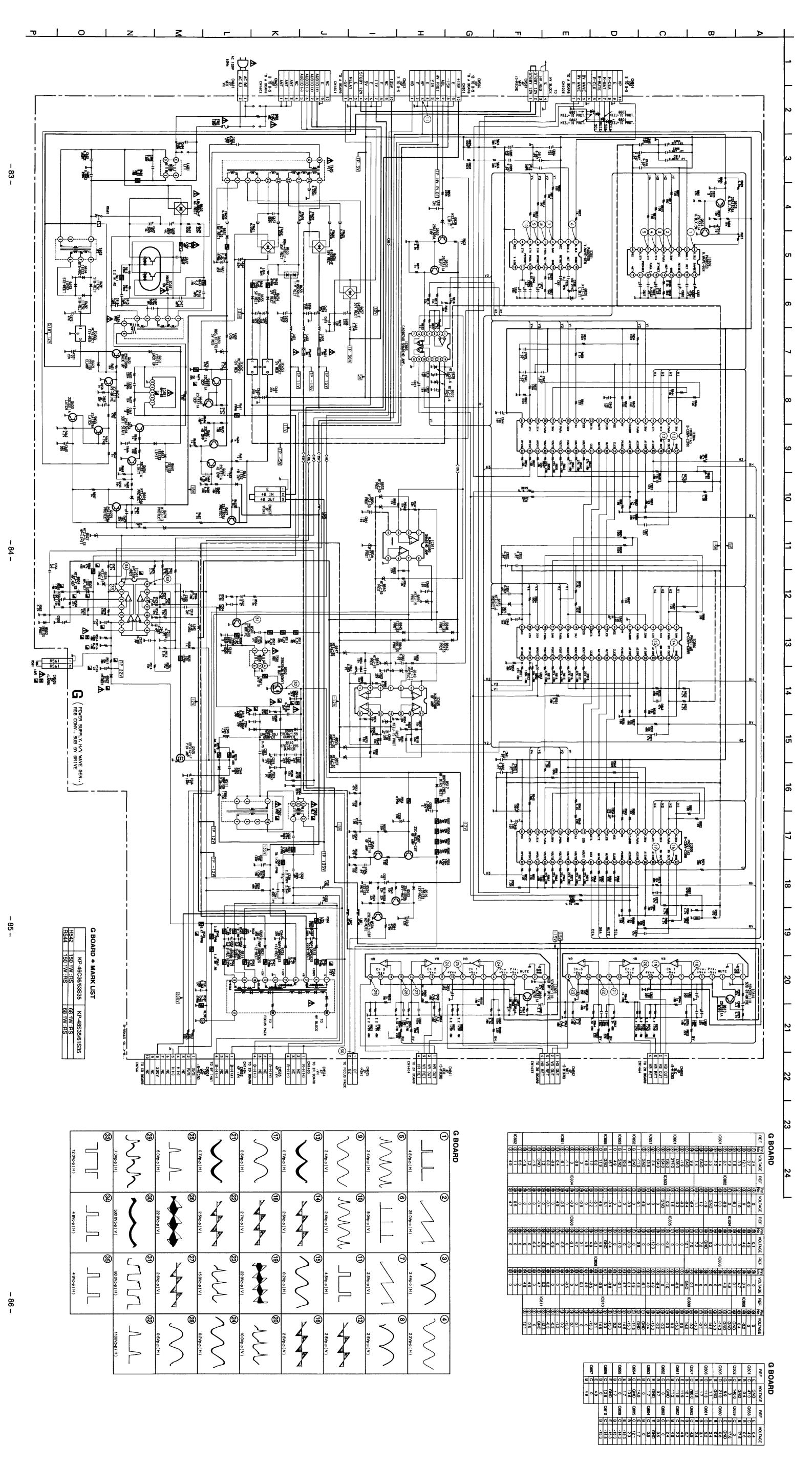
NOTE:

inspection or repairing.

- 80 -



81 -

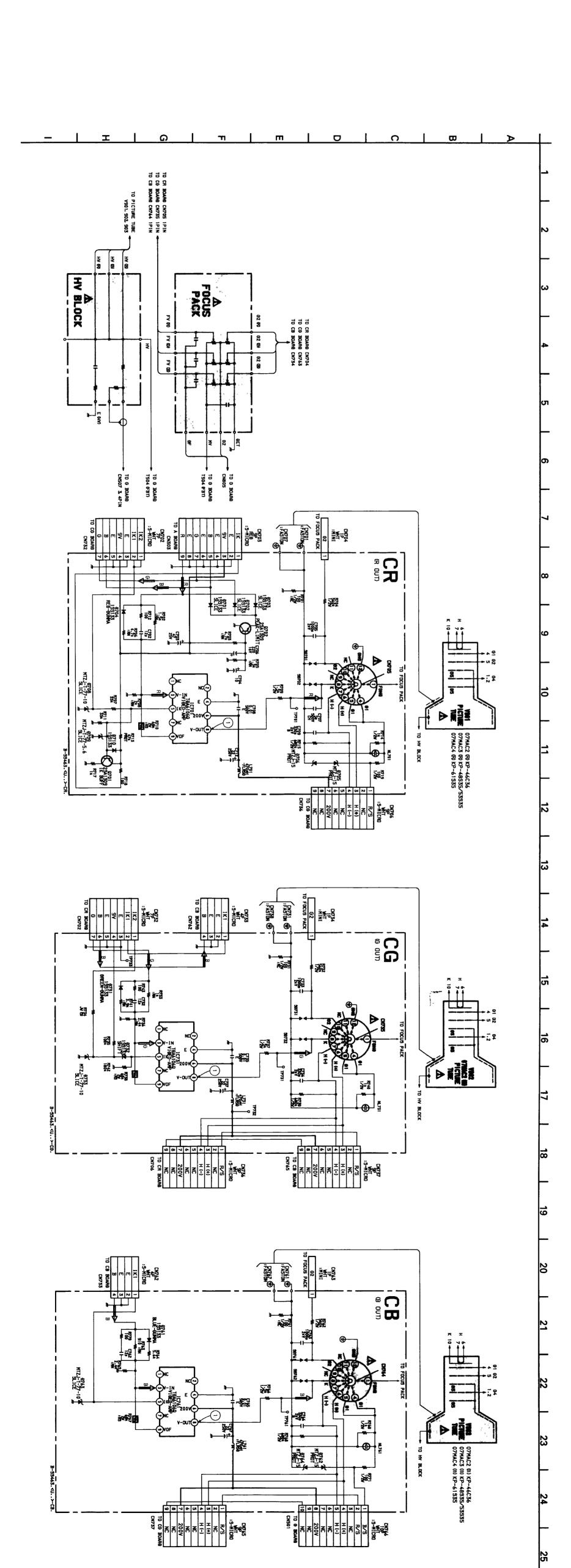


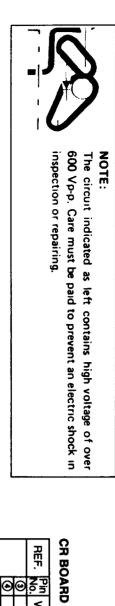
87 –

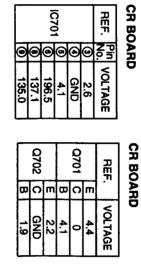
- 90 -

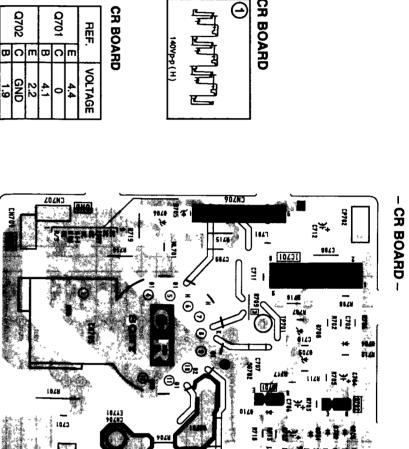
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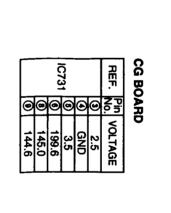


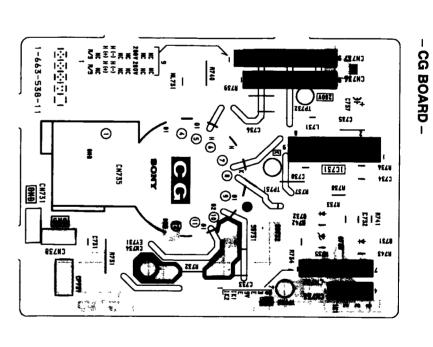






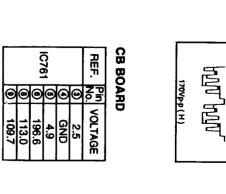
CR BOARD

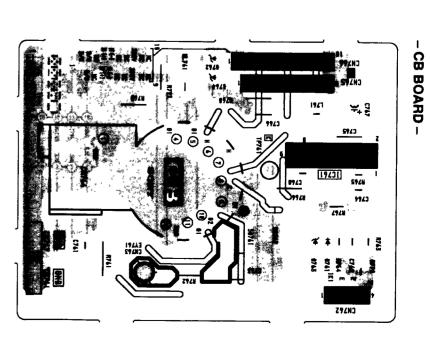




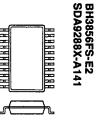
CG BOARD

CB BOARD



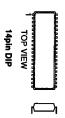


6-5. SEMICONDUCTORS

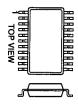


REBERREE 32pin SOP

CA0007AD NJM2058D μPC339C



CA0007AM

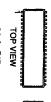


14pin SOP





CXP85112B-613S CXP85856-005S



64pin DIP

LM7805CT MC7805CT MC7812CT PQ09RF21 TA7805S TA7812S



MC7905CT









MM1313AD PM0011AS



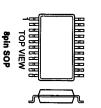
42pin DIP



M5218AP NJM4558D



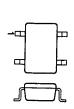
NJM4558M-T2 ST24C04FM6TR μPC4558G2 X24C04S8



PA0053B



PST9143NL



5pin chip



SBX1780-51



STK392-110

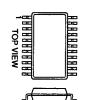








TDA8315T/N3A-T



24pin SOP





IRF614 IRF614-LF



MC780CT 2SA1837 2SC4793





TDA2009A

2SA1175-HFE 2SA1309A-QRSTA 2SC2785-HFE 2SC3311A-QRSTA



TETTER SIDE

TDA6106Q



2SC2688-LK

9pin ZIP

3 LETTER SIDE



2SC4632LS-CB7



2SD2348 (LB SONY-1)



DTZ10B UDZ-TE-17-10B



D1NL20 EL1Z GP08D GP08DPKG23 RGP02-20EL-6394 RGP10GPKG23



EXPLODED VIEWS SECTION 7

NOTE:

Items with no part number and no description are not stocked because they are seldom required for routine service.

COVER (KP-46C36/48S35/53S35)

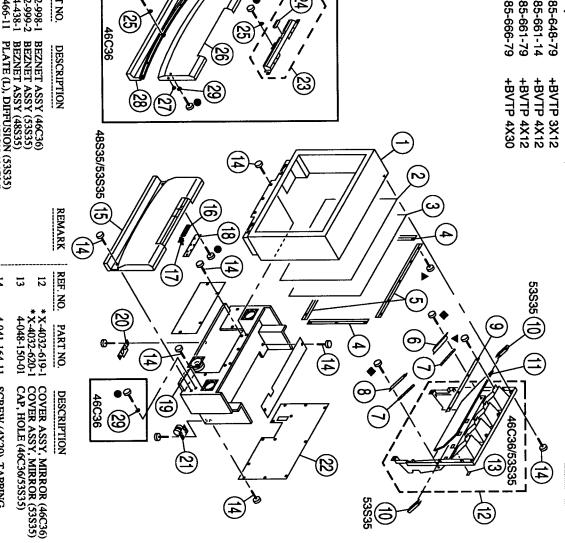
7-685-661-14 7-685-661-79 7-685-666-79 7-685-648-79

- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The componants identified by shading and mark Δ are critical for safety.

Replace only with part number specified. specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie. composants identifies par trame et une marque A t critiques pour la securite les remplacer que par une e portant le numero specifie.



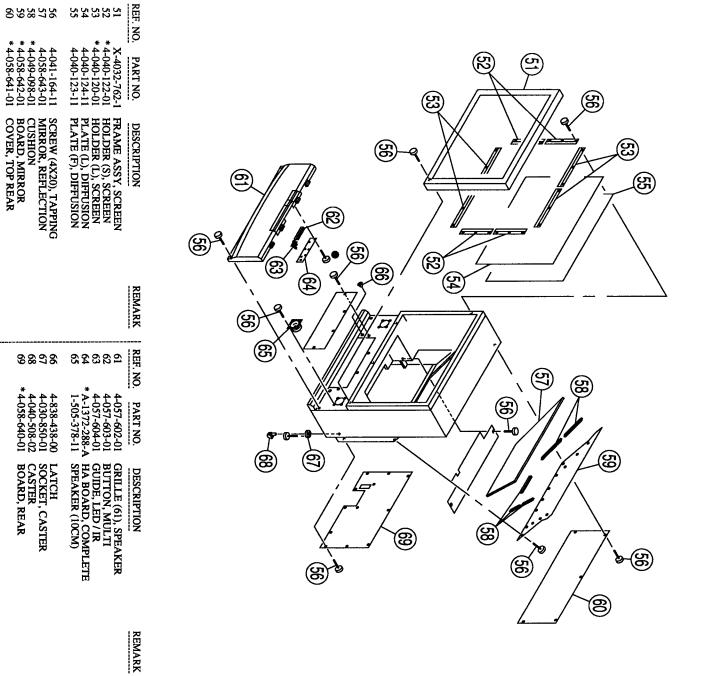
12	110 8	7	5	4	ω	2	<u></u>	REF. NO.
4-048-182-01 4-058-545-01 *4-057-610-01	*4-051-789-02 *4-037-351-01 4-033-775-41 4-048-181-01	* 4-048-159-11 * 4-051-790-02 * 4-049-098-01	*4-048-152-11 *4-048-159-01	4-058-455-11 * 4-048-152-01	4-058-454-11 4-036-469-11 4-087-324-11	A-4034-436-11 4-036-466-11 4-037-360-11	X-4032-998-1 X-4032-999-2	PART NO.
MIRROR (46) (46C36) MIRROR (48), REFLECTION (48S35) COVER, MIRROR (48S35)	HOLDER, MIRSD (R) HOLDER, MIRROR PROTECTOR, MIRROR (53S35) MIRROR (53), REFLECTION (53S35)	HOLDER (L), SCREEN (+033)/33333 HOLDER, MIRSD (L) CUSHION	HOLDER (S), SCREEN (53835) HOLDER (L), SCREEN (46C36)	PLATE (F), DIFFUSION (48S35) HOLDER (S), SCREEN (46C36/48S35)	PLATE (L), DIFFUSION (48S35) PLATE (F), DIFFUSION (53S35) PLATE (F), DIFFUSION (46C36)	PLATE (L), DIFFUSION (53S35) PLATE (L), DIFFUSION (46C36)	BEZNET ASSY (46C36) BEZNET ASSY (53S35)	DESCRIPTION
35)	35)	333)	35)	S35)				REMARK
26 27 28 29	23 24 25	·	3285			54	13	REF. NO.
X-4034-457-1 4-838-438-00 4-057-608-01 4-058-745-01	X-4034-456-1 4-057-605-11 4-843-806-00	*4-058-556-01 *4-058-648-01	1-303-376-11 4-048-175-01 4-040-755-01 *4-057-844-01	* A-1372-288-A	4-057-603-01 4-057-604-01 * A-1372-304-A	4-041-164-11 4-057-597-01	* X-4032-619-1 * X-4032-620-1 4-048-150-01	PART NO.
GRILLE ASSY, SPEAKER (46C36) LATCH (46C36) SKIRT, FRONT (46C36) VELCRO (46C36)	PANEL ASSY, CONTROL (46C36) DOOR, CONTROL (46C36) STRIKE (46C36)	BOARD (48), REAR (48S35) BOARD (46), REAR (46C36)	FOOT, PLASTIC CASTER (DIA. 30) BOARD (53), REAR (53835)			SCREW (4X20), TAPPING GRILLE. SPEAKER (48S35/53S35)	COVER ASSY, MIRROR (46C36) COVER ASSY, MIRROR (53S35) CAP, HOLE (46C36/53S35)	DESCRIPTION
								REMARK

24

1313

7-2. COVER (KP-61S35)

: 7-685-648-79 +BVTP 3X12



7-3. **CHASSIS**

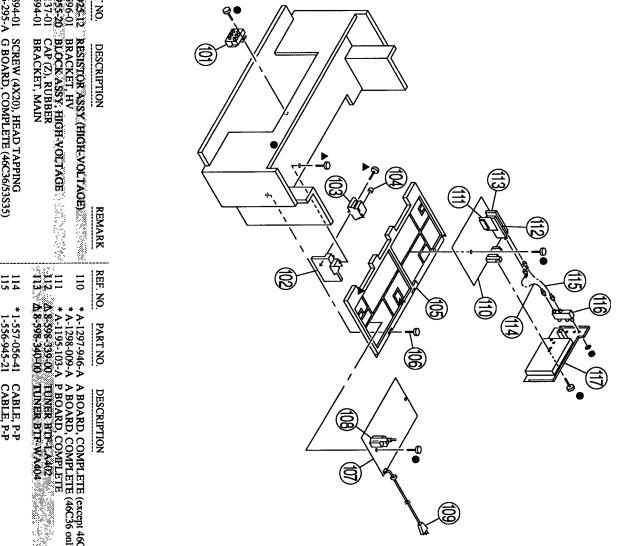
The components identified by shading and mark △ are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

: 7-685-648-79 +BVTP 3X12

7-685-661-14 +BVTP 4X12



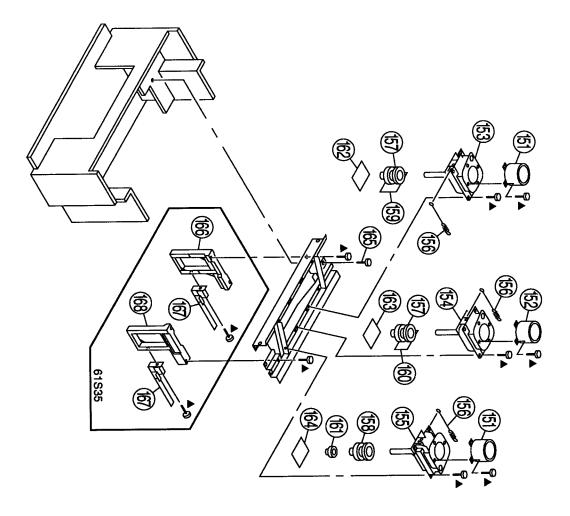
106 4-052-894-01 SCREW (4X20), HEAD TAPPING 107 *A-1316-295-A G BOARD, COMPLETE (46C36/53S35) *A-1316-304-A G BOARD, COMPLETE (48S35/61S35) 108	REF. NO. PART NO. DESCRIPTION REMARK 101 A1:223-923-12 RESISTOR ASSY (HIGH-VOLTAGE) 102 *4-057-596-01 BRACKET, HV 103 A8:598-955-20 BLOCK ASSY, HIGH-VOLTAGE 104 4-373-137-01 CAP (Z), RUBBER 105 *4-057-594-01 BRACKET, MAIN
114 115 117	REF. NO 110 111 112
*1-557-056-41 1-556-945-21 8-598-414-00 4-057-595-01 4-057-595-21	REF. NO. PART NO. 110 * A-1297-946-4
CABLE, P-P CABLE, P-P ANTENNA SWITCH AS-2F TERMINAL BOARD (48335/53S35/61S35 TERMINAL BOARD (46C36)	2. PART NO. DESCRIPTION RE. *A-1297-946-A A BOARD, COMPLETE (except 46C36) *A-1298-009-A A BOARD, COMPLETE (46C36 only) *A-1195-103-A P BOARD, COMPLETE A8-598-340-00 TUNER BTF-WA404
F .5/53835/61835) 16)	REMARK 111 5C36 only) 111

: 7-685-661-14

+BVTP 4X12

Les composants identifies par une trame et une marque \(\Delta \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.



154 <u>A8733-498-05</u> 155 <u>A8733-498-05</u> <u>A8733-497-05</u>	735 A8733-498-05 A8733-498-05	REF. NO. PART NO. 151 4-040-131-01 4-056-258-01 152 4-040-131-21 4-056-258-01
733-495-05 PICTURE TUBE 07MAC2 (G) (GC LENS) 733-495-05 PICTURE TUBE 07MAC2 (B) (LONG NECK) 733-497-05 PICTURE TUBE 07MAC3 (B) (LONG NECK) (GA) (48X35/S38)	GA) (46 LOS PICTURE TUBE 07MAC3 (R) (LONG NE) LOS PICTURE TUBE 07MAC4(R) (61833)	DESCRIPTION LENS (LINNIT POINT 6) (61835) LENS (DELTA 78) (46C36/48S35/53S35) LENS (LINNIT POINT 6) (61835) LENS (LINNIT POINT 6) (61835) LENS (DELTA 78) (46C36/48S35/53S35)
OCLENS) ONG NECK) (GA):(46C36) LONG NECK) A) (48S33/S3S35)	(GA) (46C36) (LONG NECK) (GA) (48S35/53S35) (61S35)	REMARK 5) 5/53S35) 5/53S35) 5/53S35)
164 165 166 167	159 160 161 162	REF. NO. 155 2 156 157 4
* A-1331-669-A 4-052-894-01 4-057-612-01 4-058-638-01 4-057-613-01	* A-1390-682-A * A-1390-683-A 1-452-909-11 * A-1331-667-A * A-1331-668-A	PART NO. 18.733-507-05 4-048-142-01 1-451-454-14 11-451-455-21
A CB BOARD, COMPLETE SCREW (4X20), HEAD TAPPING BOARD (L), SIDE (61835) STAY, CHASSIS (61835) BOARD (R), SIDE (61835)	*A-1390-682-A ZR BOARD, COMPLETE *A-1390-683-A ZG BOARD, COMPLETE 1-452-909-11 MAGNET ASSY, 4 POLE *A-1331-667-A CR BOARD, COMPLETE *A-1331-668-A CG BOARD, COMPLETE	DESCRIPTION PICTURE TUBE 07MAC4(B) (61835 SPRING, TENSION DEFLECTION YOKE (B) (G) DEFLECTION YOKE (B)
		REMARK

ECTION ∞

ELE CTRICAL **PARTS** LIST



NOTE:

Les composants identifies par
une trame et une marque A
sont critiques pour la securite.
Ne les remplacer que par une
pièce portant le numero specifie.

The componants identified by shading and mark Δ are critical for safety.

Replace only with part number specified.

DESCRIPTION

- The components identified by M in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Items marked " * "
- All variable characteristic curve and adjustable resistors have B, unless otherwise noted.

RESISTORS

All resistors are F: nonflammab

3 ohms

nonflammable

please When indicating parts by reference include the board name. number,

- · CAPACITORS PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO. C3347 C3348 C3349 C3350 C3351 IC3301 IC3302 IC3303 C3336 C3337 C3338 C3346 C3331 C3332 C3333 C3334 C3335 C3326 C3327 C3328 C3329 C3321 C3322 C3323 C3324 C3325 C3313 C3314 C3315 C3319 C3320 C3306 C3307 C3308 C3309 C3310 C3301 C3302 C3303 C3304 C3305 C3330 8-759-366-24 8-759-231-53 8-759-361-12 1-126-960-11 1-126-967-11 1-163-121-00 1-164-004-11 1-163-251-11 1-163-239-11 1-163-239-11 1-163-031-11 1-126-967-11 1-163-038-91 1-163-038-91 1-164-346-11 1-163-031-11 1-163-038-91 1-163-038-91 1-126-967-11 1-126-967-11 1-163-031-11 1-126-967-11 1-163-038-91 1-163-231-11 1-163-017-00 1-164-004-11 1-163-017-00 1-164-346-11 1-163-038-91 1-126-960-11 1-163-038-91 1-764-816-11 1-163-038-91 1-164-005-11 1-163-141-00 1-163-031-11 1-163-251-11 1-126-967-11 1-104-664-11 1-164-695-11 1-163-031-11 1-163-038-91 A-1195-103-A -163-038-91 -126-960-11 1 CERAMIC CHIP 0.1MF 1 CERAMIC CHIP 0.47MF 0 CERAMIC CHIP 0.001MF 1 CERAMIC CHIP 0.01MF 1 CERAMIC CHIP 100PF IC TDA8315T/N3A-T IC TA7805S IC SDA9288X 1 CERAMIC CHIP 0.1MF 1 CERAMIC CHIP 0.1MF 1 CERAMIC CHIP 1MF 1 CERAMIC CHIP 0.01MF 1 ELECT 1MF CERAMIC CHIP (CERAMIC CHIP (ELECT (ELECT (CERAMIC CHIP (CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP (CERAMIC CHIP) CERAMIC CHIP (CERAMIC CHIP) ELECT ELECT CERAMIC CERAMIC CERAMIC CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP (CERAMIC CHIP (ELECT ELECT CERAMIC CERAMIC CERAMIC CONNECTOR, BOARD TO <CONNECTOR> <CAPACITOR> P BOARD, COMPLETE ************ 47MF 47MF C CHIP 0.0022MF C CHIP 0.01MF C CHIP 0.1MF 47MF 0.1MF 15PF 0.0047MF 0.1MF 33PF 33PF 0.01MF 47MF 0.1MF 0.0047MF 1MF 0.1MF 1MF 1MF 0.1MF 1MF 47MF 150PF 0.1MF 100PF 0.1MF 0.1MF 47MF 47MF 0.01MF BOARD 20% 5% 20% 20% 5% 10% 5% 5% 5% 5% 10% 10% 20% 20% 20% 20% 20% 10% REMARK 16V 50V 50V 25V 25V 25V 16V 50V 50V 50V 16V 25V 50V 16V 25V 50V 50V 25V REF. NO. R3340 R3341 R3342 R3343 R3346 R3319 R3321 R3322 R3323 R3324 R3331 R3332 R3337 R3338 R3339 R3326 R3327 R3328 R3329 R3330 R3312 R3313 R3314 R3315 R3316 R3307 R3308 R3309 R3310 R3311 R3301 R3302 R3303 R3304 R3306 Q3310 Q3312 Q3313 Q3301 Q3305 Q3306 Q3307 Q3308 L3301 L3302 L3303 8-729-422-27 8-729-026-49 8-729-026-49 8-729-026-49 8-729-422-27 8-729-422-27 8-729-026-49 8-729-422-27 1-408-413-00 1-410-473-11 1-408-418-00 PART NO. 1-216-295-91 1-216-037-00 1-216-041-00 1-216-041-00 1-216-041-00 1-216-053-00 1-216-041-00 1-216-057-00 1-216-057-00 1-216-049-91 1-216-049-91 1-216-073-00 1-216-041-00 1-216-033-00 1-216-033-00 1-216-041-00 1-216-037-00 1-216-031-00 1-216-037-00 1-216-069-00 1-216-035-00 1-216-053-00 1-216-053-00 1-216-065-00 1-216-065-00 1-216-065-00 1-216-097-91 1-216-051-00 1-216-051-00 1-216-689-11 1-216-689-11 1-216-075-00 1-216-043-91 1-216-295-91 1-216-043-91 1-215-882-00 7 TRANSISTOR 2SD601A-QRS-TX 9 TRANSISTOR 2SA1037AK-T146-R 9 TRANSISTOR 2SA1037AK-T146-R 9 TRANSISTOR 2SA1037AK-T146-R 7 TRANSISTOR 2SD601A-QRS-TX METAL GLAZE 12K METAL GLAZE 560 CONDUCTOR, CHIP METAL GLAZE 560 METAL GLAZE 560 METAL OXIDE 22 METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE INDUCTOR 22UH INDUCTOR 18UH INDUCTOR 56UH METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CONDUCTOR, CHIP TRANSISTOR 2SD601A-QRS-TX TRANSISTOR 2SA1037AK-T146-R TRANSISTOR 2SD601A-QRS-TX <RESISTOR> DESCRIPTION ^COIL> <TRANSISTOR> 470 2.2K 2.2K 1K 330 180 330 6.8K 270 1.5K 1.5K 4.7K 4.7K 330 470 470 470 1.5K 10K 220 220 470 100K 1.2K 1.2K 39K 58888 88888 5555 5% 5% REMARK 1/10W 2W 1/10W 1/10W ч



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C110 C110	C108 C108 C108	C047 C047 C048 C054	CO38 CO38 CO38	C027 C028 C033	C025 C021 C024	C017	C0001		*** ** **	X3301 X3302	R3369 R3370 R3371 R3372 R3373	R3364 R3365 R3366 R3367 R3368	R3359 R3360 R3361 R3362 R3363	REF. NO. R3352 R3358
1-163-231-11			,					1298-(-382-85	**************************************	1-567-505-11 1-760-095-21	1-216-101-00 1-216-041-00 1-216-095-00 1-216-041-00 1-216-035-00	1-216-035-00 1-216-105-91 1-216-105-91 1-216-095-00 1-216-103-00	1-216-047-91 1-216-053-00 1-216-053-00 1-216-029-00 1-216-031-00	PART NO. 1-216-049-91 1-216-047-91
CERAMIC CHIP 15PF CERAMIC CHIP 15PF	HHH				CHIP		OR>	A BC ****	A BOARD. COMPLET	<crys< td=""><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>METAL METAL METAL METAL METAL</td><td>DESCRIPTION METAL GLAZE METAL GLAZE</td></crys<>	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	METAL METAL METAL METAL METAL	DESCRIPTION METAL GLAZE METAL GLAZE
5% 5% 5%		IF 10% 2MF 10% IF 5%	20% 5% 5% 20%						TE (except KP	, AT	5% 5% 5% 8% 5% 8%	555 55 888 88	555 55 888 88	5% 5%
50V 50V	25V 50V 50V	50V 50V 25V	50V 50V 50V	16V 50V 25V	50V 50V 25V	50V 16V 50V 25V	50V	•	**************************************		1/10W 1/10W 1/10W 1/10W	W01/1 W01/1 W01/1 W01/1	1/10 W 1/10 W 1/10 W	REMARK 1/10W 1/10W
C349 C351	C342 C342 C348	C332 C333 C334 C335 C337	C326 C327 C329 C330 C331	G221 G222 G224 G224	C316 C317 C318 C319 C320	22 22 22 22 22 22 22 22 22 22 22 22 22	20000 400000 40000000000000000000000000	C230 C231 C232 C302 C303	C224 C226 C227 C228 C229	C218 C219 C220 C221 C221 C223	C210 C211 C212 C213 C216	C204 C206 C207 C208 C209	C120 C121 C124 C201 C203	REF. NO. C119
1-163-245-11 1-164-004-11	1-126-961-11 1-126-959-11 1-137-399-11 1-163-251-11 1-126-933-11	1-164-232-11 1-164-232-11 1-163-275-11 1-126-935-11 1-126-960-11	1-126-964-11 1-163-141-00 1-163-017-00 1-163-263-11 1-126-959-11	1-126-963-11 1-130-495-00 1-137-581-11 1-164-182-11 1-126-959-11	1-164-232-11 1-164-232-11 1-164-232-11 1-164-004-11 1-164-004-11	1-115-419-11 1-126-959-11 1-137-399-11 1-137-399-11 1-137-399-11	1-126-964-11 1-163-231-11 1-164-004-11 1-126-933-11 1-163-133-00	1-126-964-11 1-126-933-11 1-164-004-11 1-126-959-11 1-163-031-11	1-104-664-1 1-126-964-1 1-164-004-1 1-104-664-1 1-126-964-1	1-163-031-11 1-126-964-11 1-126-964-11 1-164-004-11 1-126-964-11	1-126-964-11 1-126-964-11 1-126-964-11 1-126-964-11 1-126-964-11	1-164-004-11 1-164-004-11 1-164-004-11 1-164-004-11 1-126-964-11	1-163-227-11 1-163-227-11 1-163-031-11 1-126-960-11 1-126-935-11	PART NO. 1-163-227-11
CERAMIC CHIP CERAMIC CHIP	ELECT ELECT FILM CERAMIC CHIP ELECT	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT ELECT	ELECT CERAMIC CHIF CERAMIC CHIF CERAMIC CHIF ELECT	ELECT MYLAR FILM CERAMIC CHIF ELECT	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	CERAMIC CHIP LELECT FILM FILM FILM FILM	ELECT CERAMIC CHIE CERAMIC CHIE ELECT CERAMIC CHIE	ELECT ELECT CERAMIC CHIE ELECT CERAMIC CHIE	CHII	CERAMIC CHIP ELECT ELECT CERAMIC CHIP ELECT		CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT ELECT	DESCRIPTION CERAMIC CHIP
56PF 0.1MF	2.2MF 0.47MF 0.1MF 100PF 100MF	0.01MF 0.01MF 0.001MF 470MF 1MF	10MF 0.001MF 0.0047MF 330PF 0.47MF	4.7MF 0.1MF 0.1MF 0.0033MF 0.47MF	0.01MF 0.01MF 0.01MF 0.1MF 0.1MF	3300PF 0.47MF 0.1MF 0.1MF 0.1MF	10MF 15PF 0.1MF 100MF 470PF	10MF 100MF 0.1MF 0.47MF 0.01MF	47MF 10MF 0.1MF 47MF 10MF	0.01MF 10MF 10MF 0.1MF	10MF 10MF 10MF	0.1MF 0.1MF 0.1MF 0.1MF 10MF	10PF 10PF 0.01MF 1MF 470MF	10 PF
5% 10%	20% 5% 5% 20%	10% 10% 5% 20% 20%	20% 5% 10% 5% 20%	20% 5% 5% 10% 20%	10% 10% 10% 10%	520% 5888 5888	20% 5% 10% 20%	20% 20% 10% 20%	20% 20% 20% 20%	20% 20% 10% 20%	20% 20% 20% 20%			! 🖼
50V 25V	50V 50V 50V 50V	50V 50V 50V 16V 50V	50V 50V 50V 50V	50V 50V 50V 50V	50V 50V 50V 25V 25V	25V 50V 50V 50V 50V	50V 50V 25V 16V 50V	50V 16V 25V 50V 50V	25V 50V 25V 25V 50V	50V 50V 25V 50V	50V 50V 50V 50V	25V 25V 25V 25V 50V	50V 50V 50V	EMARK 50V

	C1509 C1510 C1511 C1513 C1514	C1502 C1503 C1506 C1507 C1508	C1117 C1118 C1119 C1120 C1501	C1112 C1113 C1114 C1115	C1107 C1108 C1109 C1110 C1111	C1102 C1103 C1104 C1105 C1106	C436 C437 C440 C441 C1101	C431 C432 C433 C433 C434 C435	C426 C427 C427 C428 C429 C430	C419 C420 C422 C424 C424	C414 C415 C416 C417 C418	C410 C411 C412 C413	C406 C407 C408	C401 C402 C403	REF. NO.
	1-163-251-11 1-126-942-61 1-126-942-61 1-163-031-11 1-163-031-11	1-107-504-11 1-136-177-00 1-126-969-11 1-163-243-11 1-137-378-11	1-163-031-11 1-163-031-11 1-126-968-11 1-126-933-11 1-163-009-11	1-163-031-11 1-126-964-11 1-163-031-11 1-163-031-11 1-163-031-11	1-104-664-11 1-126-964-11 1-126-933-11 1-164-161-11 1-126-960-11	1-163-031-11 1-126-933-11 1-164-161-11 1-126-960-11 1-126-933-11	1-126-943-11 1-126-943-11 1-126-964-11 1-126-964-11 1-163-031-11	1-126-969-11 1-136-173-00 1-137-399-11 1-128-550-11 1-137-399-11	1-126-964-11 1-126-933-11 1-126-969-11 1-126-967-11 1-126-964-11	1-126-964-11 1-126-964-11 1-104-664-11 1-126-961-11 1-126-935-11	1-163-038-91 1-126-964-11 1-126-964-11 1-126-964-11 1-104-664-11	1-13/-399-11 1-137-399-11 1-126-933-11 1-128-551-11	1-137-399-11 1-126-960-11 1-137-367-11 1-137-367-11	1-126-964-11 1-126-964-11 1-137-367-11 1-137-367-11 1-137-399-11	PART NO.
		CERAMIC FILM ELECT CERAMIC CHIP	CERAMIC CHIP CERAMIC CHIP ELECT ELECT CERAMIC CHIP	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	ELECT ELECT ELECT CERAMIC CHIP ELECT	CERAMIC CHIP ELECT CERAMIC CHIP ELECT ELECT	ELECT ELECT ELECT ELECT CERAMIC CHIP	ELECT FILM FILM ELECT FILM	ELECT ELECT ELECT ELECT	ELECT ELECT ELECT ELECT	CERAMIC CHIP ELECT ELECT ELECT ELECT	HLM ELECT ELECT	FILM FILM	ELECT ELECT FILM FILM	DESCRIPTION
	1000MF 1000MF 1000MF 0.01MF	10PF 1MF 220MF 47PF 0.22MF	0.01MF 0.01MF 100MF 100MF 0.001MF	0.01MF 10MF 0.01MF 0.01MF	47MF 10MF 100MF 0.0022MF	0.01MF 100MF 0.0022MF 1MF 100MF	2200MF 2200MF 10MF 10MF 0.01MF	220MF 0.47MF 0.1MF 2200MF 0.1MF	10MF 100MF 220MF 47MF 10MF	10MF 10MF 47MF 2.2MF 470MF	0.1MF 10MF 10MF 10MF 10MF		0.1MF 1MF 0.0033MF 0.0033MF	10MF 10MF 0.0033MF 0.0033MF	
	5% 20% 20%	0.5PF 5% 20% 5% 5%	20% 20% 10%	20%	20% 20% 20% 20% 20%	20% 10% 20% 20%	20% 20% 20% 20%	20% 5% 5% 20% 5%	20% 20% 20% 20% 20%	20% 20% 20% 20%	20% 20% 20% 20%	5% 20% 20%	5% 5% 5%		
	50V 25V 25V 50V	500V 50V 50V 50V	50V 50V 50V 16V	50V 50V 50V 50V	25V 50V 16V 50V 50V	50V 16V 50V 50V	25V 25V 50V 50V	50V 50V 50V 50V	50V 16V 50V 50V	50V 50V 25V 50V 16V	25V 50V 50V 50V 25V	50V 50V 16V 25V	50V 50V	50V 50V 50V	REMARK
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8-719-110-17	8-719-110-17 8-719-110-17 8-719-110-17 8-719-110-17 8-719-110-17 8-719-110-17	5555	8-719-977-28 8-719-977-28 8-719-977-28 8-719-977-28 8-719-977-28	8-719-109-89 8-719-110-17 8-719-109-89 8-719-977-28 8-719-977-28	8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33 8-719-109-89	*1-774-183-11	*1-564-507-11 *1-564-506-11 *1-564-514-11 *1-564-506-11 *1-774-183-11	1-573-979-2: 1-774-183-1: 1-564-508-1: 1-564-512-1:	*1-564-507-11 *1-564-511-11 *1-774 193 11	1-466-162-81		1-126-916-11 1-126-934-11 1-163-031-11 1-163-031-11	1-164-004-11 1-163-005-11 1-137-150-11 1-126-933-11 1-126-964-11	1-126-964-11 1-126-933-11 1-126-933-11 1-126-964-11 1-164-161-11	PART NO.
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						O10P	only) 6 only)	D 11P	110B		50V 50V 16V 50V	6.3V 16V 50V	25V 50V 100V 16V 50V	50V 16V 50V 50V	REMARK





Les composants identifies par une frame et une marque \(\Delta \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark \(\Delta\) are critical for safety.

Replace only with part number specified.

	L007 L201 L302 L303 L1101	L002 L003 L004 L005 L006	J208 J209	J203 J205	IC1501 IC1502 IC1601 IC1602	IC201 IC301 IC401 IC402 IC403	IC001 IC002 IC003 IC004	FB1102	D1107 D1501 D1502	D1103 D1104 D1105 D1106	D406 D408 D410 D1101 D1102	D402 D403 D403	D238 D239 D240 D241 D303	D226 D232 D236 D237	REF. NO.
1 10 170 11	1-410-482-31 1-410-478-11 1-410-482-31 1-410-470-11 1-410-478-11	1-410-482-31 1-410-482-31 1-216-295-91 1-216-295-91 1-410-470-11	1-774-749-11	-507-667-00 -774-750-11	8-759-192-71 8-759-251-31 8-759-198-03 8-759-231-53	8-759-366-78 8-752-076-76 8-759-369-39 8-759-100-96 8-759-089-13	8-752-874-82 8-752-861-57 8-759-352-91 8-759-352-91 8-759-518-23	1-414-135-11	8-719-977-28 8-719-109-89 8-719-908-03	8-719-977-28 8-719-977-28 8-719-977-28 8-719-977-28	8-719-991-33 8-719-991-33 8-719-982-26 8-719-982-26 8-719-977-28	8-719-991-33 8-719-991-33 8-719-991-33 8-719-982-26 8-719-991-33	8-719-110-17 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	8-719-110-17 8-719-982-26 8-719-110-17 8-719-110-17	PART NO.
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	8-729-027-59 8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27	8-729-216-22 8-729-027-56 8-729-027-56 8-729-027-56 8-729-027-56	8-729-422-27 8-729-422-27 8-729-027-59 8-729-027-38 8-729-216-22	8-729-216-22 8-729-422-27 8-729-216-22 8-729-422-27 8-729-422-27 8-729-422-27	8-729-216-22 8-729-216-22 8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27	8-729-027-56 8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27	8-729-027-59 8-729-027-56 8-729-216-22 8-729-216-22 8-729-027-56	8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27 8-729-027-56	8-729-027-38 8-729-027-59 8-729-422-27 8-729-027-38 8-729-422-27	8-729-027-38 8-729-027-38 8-729-216-22 8-729-216-22	8-729-422-27	1-532-984-11	1-412-533-21 1-412-533-21	1-410-478-11 1-410-470-11 1-410-478-11 1-412-524-11	PART NO.
	9 TRANSISTOR DTC144EKA-T146 77 TRANSISTOR 2SD601A-QRS-TX 77 TRANSISTOR 2SD601A-QRS-TX 77 TRANSISTOR 2SD601A-QRS-TX	2 TRANSISTOR 2SA1162-G 6 TRANSISTOR DTC143TKA-T146 6 TRANSISTOR DTC143TKA-T146 6 TRANSISTOR DTC143TKA-T146 6 TRANSISTOR DTC143TKA-T146	7 TRANSISTOR 2SD601A-QRS-TX 7 TRANSISTOR 2SD601A-QRS-TX 9 TRANSISTOR DTC144EKA-T146 8 TRANSISTOR DTA144EKA-T146 2 TRANSISTOR 2SA1162-G	2 TRANSISTOR 2SA1162-G 7 TRANSISTOR 2SD601A-QRS-TX 2 TRANSISTOR 2SA1162-G 7 TRANSISTOR 2SD601A-QRS-TX 7 TRANSISTOR 2SD601A-QRS-TX	2 TRANSISTOR 2SA1162-G 2 TRANSISTOR 2SA1162-G 7 TRANSISTOR 2SD601A-QRS-TX 7 TRANSISTOR 2SD601A-QRS-TX 7 TRANSISTOR 2SD601A-QRS-TX	TRANSISTO TRANSISTO TRANSISTO TRANSISTO TRANSISTO	TRANSISTO TRANSISTO TRANSISTO TRANSISTO TRANSISTO	7 TRANSISTOR 2SD601A-QRS-TX 7 TRANSISTOR 2SD601A-QRS-TX 7 TRANSISTOR 2SD601A-QRS-TX 7 TRANSISTOR 2SD601A-QRS-TX 6 TRANSISTOR DTC143TKA-T146	8 TRANSISTOR DTA144EKA-T146 9 TRANSISTOR DTC144EKA-T146 9 TRANSISTOR 2SD601A-QRS-TX 7 TRANSISTOR DTA144EKA-T146 7 TRANSISTOR 2SD601A-QRS-TX	TRANSISTO TRANSISTO TRANSISTO TRANSISTO	<transistor> TRANSISTOR 2SD601A-QRS-TX</transistor>	AIC LI		INDUCTOR INDUCTOR INDUCTOR INDUCTOR	DESCRIPTION
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1-410-478-11 INDUCTOR 47UH

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1-216-033-00 1-216-033-00	1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	1-216-073-00 1-216-073-00 1-216-049-91 1-216-049-91		47-807 47-815 16-049 16-033	1-216-073-00 1-216-049-91 1-216-057-00 1-216-065-00 1-216-089-91 1-216-073-00	1-216-065-00 1-216-025-91 1-216-089-91 1-216-065-00 1-216-073-00	1-216-033-00 1-216-033-00 1-216-033-00 1-216-089-91 1-216-089-91	16-073-00 16-065-00 16-073-00 16-065-00 16-073-00	16-121-91 16-097-91 16-033-00 16-065-00 16-065-00	16-065-00 16-097-91 16-057-00 16-089-91 16-065-00	1-216-033-00 1-216-033-00 1-216-025-91 1-216-025-91 1-216-065-00	1-216-073-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	1-216-293-91 1-216-033-00 1-216-033-00 1-216-033-00 1-216-081-00	T NO.
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1-216-019-00 1-216-049-91	1-216-022-00 1-216-017-91 1-216-057-00	1-216-022-00 1-216-113-00 1-216-113-00 1-216-022-00 1-216-022-00	1-216-113-00 1-216-113-00 1-216-113-00 1-216-113-00 1-216-113-00	1-216-035-00 1-216-035-00 1-216-035-00 1-249-377-11 1-216-022-00	1-216-113-00 1-216-017-91 1-216-033-00 1-216-033-00 1-216-033-00	1-216-025-91 1-216-025-91 1-216-113-00 1-216-017-91 1-216-017-91	16-065 16-057 16-057	1-216-033-00 1-216-033-00 1-216-033-00 1-216-065-00 1-216-065-00	1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	16-065-00 16-057-00 16-057-00 16-037-00 16-033-00	16-073-00 16-097-91 16-033-00 16-073-00 16-065-00	8822	PART NO. 1-216-049-91 1-216-049-91
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R327 R328 R328 R330 R331 R332	R322 R322 R323 R324	R307 R308 R310 R314 R316	R301 R302 R303 R304 R305 R306	R290 R291 R294 R295 R296 R297 R299	R286 R287 R288 R289	R283 R284 R285	R279 R280 R281 R281	R266 R268 R274 R275 R276 R2776	R 260 R 260 R 261 R 262	REF. NO. R230 R231 R235 R236 R241 R245 R245
1-216-049-91 1-216-049-91 1-216-025-91 1-216-025-91 1-216-035-00	1-216-035-00 1-216-033-00 1-216-077-00 1-216-025-91 1-216-025-91 1-216-025-91	16-049-91 16-017-91 16-017-91 16-017-91 16-033-00 16-033-00	1-216-041-00 1-216-049-91 1-216-049-91 1-216-049-91 1-216-033-00 1-216-041-00	1-216-025-91 1-216-025-91 1-216-043-91 1-216-073-00 1-216-025-91 1-216-093-00 1-216-041-00	1-216-025-91 1-216-025-91 1-216-025-91 1-216-025-91	1-216-041-00 1-216-041-00 1-216-041-00	1-216-025-91 1-216-025-91 1-216-041-00 1-216-041-00 1-216-041-00	1-216-057-00 1-216-105-91 1-216-019-00 1-216-033-00 1-216-033-00 1-216-025-91	1-216-089-91 1-216-073-00 1-216-065-00 1-216-095-00 1-216-095-00 1-216-089-91	PART NO. 1-216-113-00 1-216-041-00 1-216-041-00 1-216-041-00 1-216-041-00 1-216-041-00
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1-216-049-91 1-216-049-91 1-216-053-00 1-216-081-00 1-216-011-00 1-216-075-00	1-216-025-91 1-216-025-91 1-216-089-91 1-216-041-00 1-216-053-00	1-216-025-91 1-216-073-00 1-216-073-00 1-216-073-00 1-216-025-91 1-216-073-00	1-216-073-00 1-216-089-91 1-216-097-91 1-249-377-11 1-249-377-11 1-216-073-00 1-216-025-91	1-216-065-00 1-216-079-00 1-216-049-91 1-216-101-00 1-216-097-91 1-216-073-00 1-216-057-00	1-216-081-00 1-216-065-00 1-216-073-00 1-216-083-00 1-216-077-00	1-216-049-91 1-216-077-00 1-208-783-11 1-216-081-00 1-216-017-91	1-216-049-91 1-216-049-91 1-216-049-91 1-216-065-00 1-216-041-00	1-216-049-91 1-216-049-91 1-216-061-00 1-216-059-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00	1-216-025-91 1-216-073-00 1-216-067-00 1-216-109-00 1-216-053-00 1-216-049-91	PART NO. 1-208-810-11 1-216-043-91 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00
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M01/1 M01/1 M01/1 M01/1 M01/1	M01/1 M01/1 M01/1 M01/1	W01/1 W01/1 W01/1 W01/1 W01/1	1/10W 1/10W 1/10W 1/4W F 1/10W 1/10W	1/10W 1/10W 1/10W 1/10W	1/10W 1/10W 1/10W		W01/1 W01/1 W01/1 W01/1 W01/1	W00/11 W00/11 W00/11 W00/11 W00/11 W00/11	W01/1 W01/1 W01/1 W01/1 W01/1	REMARK 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifies par une frame et une marque 🐧 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by M in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



*****	X001 X002 X301 X304	TUHOZ &	TH1501	R2205 R2208 R2209	R2111 R2112 R2201 R2202 R2203	R1528 R1529 R2106 R2109 R2110	R1525 R1525 R1525 R1526	R1510 R1511 R1518 R1520 R1522	R1504 R1506 R1507 R1508	R1106 R1107 R1108 R1501	R444 R1101 R1102 R1103 R1104	R439 R440 R441 R442 R443	REF. NO. 1 R435 R436 R437 R438
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The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

REF. NO. PART NO. DESCR

Les composants identifies par une trame et une marque 🛆 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



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8-759-133-9 8-729-041-11 1-810-051-1 8-759-012-6 8-759-231-53 8-759-327-5 8-759-327-5	1.410-396.41 1.410-396.41 1.410-396.41 1.410-396.41 1.410-396.41 1.410-396.41	19-982-1 32-748-1 33-223-1 10-397-2	8-719-982-19 8-719-982-19 8-719-982-19 8-719-923-86 8-719-923-86	8-719-982-19 8-719-923-86 8-719-110-22 8-719-109-89 8-719-923-86	8-719-109-89 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	8-719-110-17 8-719-110-17 8-719-110-17 8-719-110-17 8-719-109-68 8-719-109-89 8-719-109-84	8-719-991-33 8-719-110-61 8-719-991-33 8-719-921-86 8-719-200-82 8-719-200-82 8-719-200-82	8-719-052-91 8-719-510-12 8-719-118-59 8-719-991-33 8-719-200-82	PART NO. 8-719-991-33 8-719-510-02 8-719-022-97 8-719-061-56 8-719-052-92
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The components identified by M in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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The components identified by shading and mark \(\Delta\) are critical for safety.

Replace only with part number specified.

REMARK

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22223		ARBON 100 ARBON 100 ARBON 100 ARBON 100 ARBON 22K ARBON 22K ARBON 3.3K ARBON 10K		ARBON 10K ARBON 10K ARBON 10K ARBON 33K AETAL 1K ARBON 1.5M ARBON 100K ARBON 100K ARBON 100K ARBON 100K	METAL 9.1K CARBON 4.7K CARBON 180 METAL 10K METAL 10K METAL 2.2 METAL 2.2 METAL 10K METAL 2.2 METAL 2.2 METAL 2.2		CARBON METAL METAL METAL METAL METAL METAL METAL METAL	02222 000 ID
3.3K 220 27K 27K 27K 27K	2.2 2.2 3.3K 4.7K 2.2 2.2 3.3K	100 100 100 100 22 K 3.3 K 3.3 K	100K 11K 11K 110K 110K 110K 1200K	10K 10K 33K 11K 11SM 11SM 11SM 11SM	9.1K 4.7K 180 10K 10K 2.2 2.2 10K 22K		CARBON 220 METAL IK METAL IK METAL 27K METAL 27K METAL 27K METAL 27K METAL 27K	DESCRIPTION CARBON CARBON CARBON CARBON METAL ME





Les composants identifies par une trame et une marque A

The componants identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

REMARK REF. NO.	22.	ž, ý	
O. PART NO.	piece portant le numero specifie	Ne les remplace	sont critiques pour la securite
DESCRIPTION	umero specifie.	le les remplacer que par une	ur la securite.
REMARK	specified.	Replace only with part number	cal for safety.

	C707 C708 C709 C712	C704 C705	C702	* * * * *	TH801	T604 /		· .	RY601		R996 R997 R998 R999	R991 R992 R993 R994 R995	R985 R987 R988 R989 R990	R980 R981 R982 R983 R984	R975 R976 R977 R977 R978	R970 R971 R972 R973 R974	REF. NO.
	1-107-585-11 1-102-050-00 1-162-115-00 1-107-662-11	1-104-664-11 1-126-964-11 1-161-754-00 1-126-934-11	1-102-949-0	**************************************	1-808-269-11	Δ1.429.992.11 Δ1.429.985-11	A 1-431-211-11 A 1-431-212-11 A 1-453-238-11	1-437-195-1/	A 1-755-032-11		1-247-815-91 1-215-445-00 1-249-434-11 1-249-434-11	1-249-429-11 1-259-878-11 1-249-425-11 1-249-425-11 1-249-413-11	1-215-445-00 1-249-408-11 1-215-445-00 1-249-425-11 1-249-429-11	1-247-815-91 1-247-815-91 1-247-895-91 1-247-815-91 1-215-444-00	1-214-800-11 1-215-433-00 1-247-815-91 1-215-445-00 1-249-425-11	1-215-455-00 1-215-455-00 1-215-455-00 1-214-800-11 1-215-463-00	PART NO.
	CERAMIC CERAMIC CERAMIC CERAMIC LELECT	1 ELECT 1 ELECT 1 ELECT	<capacitor></capacitor>	**************************************	<thermistor></thermistor>	A 1429-985-11 TRANSFORMER, CONVERTER (PRT) A 1429-985-11 TRANSFORMER, CONVERTER (PTT)	A 1-431-211-11 TRANSFORMER HERKILL (PM1) A 1-431-212-11 TRANSFORMER HORIZONTALLINEAR A 1-453-238-11 TRANSFORMER ASSY, FLYBACK (NX-40071/X4A4) A 1-273-66-11 TRANSFORMER POWER	<transformer></transformer>	- RELAY>		CARBON CARBON CARBON	CARBON CARBON CARBON CARBON CARBON	METAL CARBON METAL CARBON CARBON	CARBON CARBON CARBON CARBON METAL	METAL METAL CARBON METAL CARBON	METAL METAL METAL METAL	DESCRIPTION
	5PF 0.01MF 330PF 22MF	10MF 0.001MF 220MF		:******* COMPLETE	~ ₹	ER CONVE	ER FERRUI ER HORIZA ER ASSY, F	MER>			220 10 K 27 K 27 K	10K 1.5M 4.7K 4.7K 4.7K	10K 180 10K 4.7K	220 220 470K 220 9.1K	2.2 3.3K 220 10K 4.7K	27 K 27 K 27 K 27 K 2.2 56 K	
	0.25PF 10% 20%	20% 10% 20%		; [7] * * * * * *		RIER ER	LYBAC	N F			5% 5% 5%	5555 8888 8888	55153 8888 8888	5888 1888	1% 5% 1% 5%	11 % % % % % % % % % % % % % % % % % %	
	9F 500V 500V 2KV 250V	50V 2KV 16V	50V	****		PRT)	LINEAR K 4007//X4A4	DRIVE			1/4W 1/4W 1/4W 1/4W	1/4W 1/4W 1/4W 1/4W 1/4W	1/4W 1/4W 1/4W 1/4W	1/4W 1/4W 1/4W 1/4W	1/2W 1/4W 1/4W 1/4W 1/4W	1/4W 1/4W 1/4W 1/2W 1/4W	REMARK
	× × ×																
}	SG702	G701	R717 R718 R719	R711 R712 R713 R714 R715	R706 R707 R708 R709 R710	R702 R703 R704	R 701	Q701 Q702	NL701		L701	IC701	D706 D708 D709 D710	D701 D702 D703 D704	238	CN701 CN702 CN703	F. NO.
	* * *		1-249-417-1 1-247-807-3 1-260-087-1								<u></u>				238		REF. NO. PART NO.
	3702 1-519-422-11 GAP, SPARK	<pre><spark 1-510-477-11="" gap="" pre="" sp<=""></spark></pre>	R717 1-249-417-11 CARBON R718 1-247-807-31 CARBON R719 1-260-087-11 CARBON	R711 1-249-435-11 CARBON R712 1-247-807-31 CARBON R713 1-249-437-11 CARBON R714 1-260-099-11 CARBON R715 1-260-133-11 CARBON	1-215-437-00 METAL 1-249-435-11 CARBOI 1-215-428-00 METAL 1-260-101-11 CARBOI 1-215-903-11 METAL	1-215-425-00 METAL 1-215-437-00 METAL 1-260-132-11 CARBON 1-215-424-00 METAL	<resistc 1-219-743-11="" resistof<="" th=""><th>8-729-119-76 8-729-119-76</th><th>1-519-108-99 L</th><th><neon lamp<="" th=""><th><coil> 1-408-429-00 INDUCTOR</coil></th><th><ic> IC701 8-759-434-39 IC TDA6106Q</ic></th><th>8-719-923-86 DIODE 8-719-110-17 DIODE 8-719-109-89 DIODE 8-719-991-33 DIODE</th><th>8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-923-86 DIODE</th><th>238</th><th></th><th>1</th></neon></th></resistc>	8-729-119-76 8-729-119-76	1-519-108-99 L	<neon lamp<="" th=""><th><coil> 1-408-429-00 INDUCTOR</coil></th><th><ic> IC701 8-759-434-39 IC TDA6106Q</ic></th><th>8-719-923-86 DIODE 8-719-110-17 DIODE 8-719-109-89 DIODE 8-719-991-33 DIODE</th><th>8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-923-86 DIODE</th><th>238</th><th></th><th>1</th></neon>	<coil> 1-408-429-00 INDUCTOR</coil>	<ic> IC701 8-759-434-39 IC TDA6106Q</ic>	8-719-923-86 DIODE 8-719-110-17 DIODE 8-719-109-89 DIODE 8-719-991-33 DIODE	8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-923-86 DIODE	238		1
	1-519-422-11	1-510-422-11	1-249-417-11 1-247-807-31 1-260-087-11	1-249-435-11 1-247-807-31 1-249-437-11 1-260-099-11 1-260-133-11	1-215-437-00 1-249-435-11 1-215-428-00 1-260-101-11 1-215-903-11	1-215-425-00 METAL 1.5K 1-215-437-00 METAL 4.7K 1-260-132-11 CARBON 560K 1-215-424-00 METAL 1.3K	<resistor> 1-219-743-11 RESISTOR (SURGE RES</resistor>	<pre><!--RANSISTOR--> 8-729-119-76 TRANSISTOR 2SA1175- 8-729-119-76 TRANSISTOR 2SA1175-</pre>	1-519-108-99 L	<neon lamp=""></neon>	1-408-429-00	<10 8-759-434-39 IC	8-719-923-86 8-719-110-17 8-719-109-89 8-719-991-33	8-719-991-33 D 8-719-991-33 D 8-719-991-33 D 8-719-991-33 D 8-719-923-86 D	*1-564-512-11 PLUG, CONNECTOR 9P	<connector> 1-695-915-11 TAB (CONTACT) *1-564-510-11 PLUG, CONNECTOR 7P *1-564-512-11 PLUG, CONNECTOR 9P *1-508-784-00 PIL CONNECTOR (5mn</connector>	PART NO.
	1-519-422-11	<pre><spark 1-510_477-11="" gap="" pre="" sp<=""></spark></pre>	1-249-417-11 CARBON 1-247-807-31 CARBON 1-260-087-11 CARBON	1-249-435-11 CARBON 1-247-807-31 CARBON 1-249-437-11 CARBON 1-260-099-11 CARBON 1-260-133-11 CARBON	1-215-437-00 METAL 1-249-435-11 CARBON 1-215-428-00 METAL 1-260-101-11 CARBON 1-215-903-11 METAL OXIDE	1-215-425-00 METAL 1.5K 1-215-437-00 METAL 4.7K 1-260-132-11 CARBON 560K 1-215-424-00 METAL 1.3K	<resistor> 1-219-743-11 RESISTOR (SURGE RES</resistor>	8-729-119-76 8-729-119-76	1-519-108-99 L	<neon lamp=""></neon>	<coil> 1-408-429-00 INDUCTOR</coil>	<10 8-759-434-39 IC	8-719-923-86 DIODE 8-719-110-17 DIODE 8-719-109-89 DIODE 8-719-991-33 DIODE	8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-923-86 DIODE	*1-564-512-11 PLUG, CONNECTOR 9P *DIODE>	<connector> 1-695-915-11 TAB (CONTACT) *1-564-510-11 PLUG, CONNECTOR 7P *1-564-512-11 PLUG, CONNECTOR 9P *1-508-784-00 PIL CONNECTOR (5mn</connector>	PART NO. DESCRIPTION
	1-519-422-11	<pre><spark 1-510_477-11="" gap="" pre="" sp<=""></spark></pre>	1-249-417-11 CARBON 1K 1-247-807-31 CARBON 100 1-260-087-11 CARBON 100	1-249-435-11 CARBON 33K 1-247-807-31 CARBON 100 1-249-437-11 CARBON 47K 1-260-099-11 CARBON 1K 1-260-133-11 CARBON 680K	1-215-437-00 METAL 4.7K 1-249-435-11 CARBON 33K 1-215-428-00 METAL 2K 1-260-101-11 CARBON 1.5K 1-215-903-11 METAL OXIDE 68K	1-215-425-00 METAL 1.5K 1-215-437-00 METAL 4.7K 1-260-132-11 CARBON 560K 1-215-424-00 METAL 1.3K	<resistor> 1-219-743-11 RESISTOR (SURGE RESISTANT) 10</resistor>	<pre><!--RANSISTOR--> 8-729-119-76 TRANSISTOR 2SA1175- 8-729-119-76 TRANSISTOR 2SA1175-</pre>	1-519-108-99 L	<neon lamp=""></neon>	<coil> 1-408-429-00 INDUCTOR</coil>	<10 8-759-434-39 IC	8-719-923-86 DIODE 8-719-110-17 DIODE 8-719-109-89 DIODE 8-719-991-33 DIODE	8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-991-33 DIODE 8-719-923-86 DIODE	238	<connector> 1-695-915-11 TAB (CONTACT) *1-564-510-11 PLUG, CONNECTOR 7P *1-564-512-11 PLUG, CONNECTOR 9P *1-508-784-00 PIL CONNECTOR (5mn</connector>	PART NO.

The components identified by shading and mark \(\Delta\) are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

C762			***	30732	SG731		R742	R739 R740 R741	R737	R735 R736	R731 R732		NL731		L731		IC731		D733	D731 D732		CN736 CN737	CN734 CN735			C743	C736 C737	C732 C733			REF. NO.
1-102-949-00		* A-1331-669-A	******	11-274-616-1	1-519-422-11		1-247-885-00	1-260-133-11 1-260-099-11 1-215-435-00	1-260-101-11	1-249-441-11 1-215-430-00	1-219-743-11 1-260-132-11		1-519-108-99		1-408-429-00		8-759-434-39		8-719-110-17	8-719-991-33 8-719-991-33		*1-564-512-11 *1-564-512-11	*1-504-507-11 *1-508-784-00 &1-251-182-11	1-695-915-11 *1-564-510-11		1-247-807-31	1-162-115-00 1-107-662-11	1-102-949-00 1-161-754-00 1-102-050-00		*A-1331-668-A	NO. PART NO.
CERAMIC	C A D A CUTTOR	CB BOARD, COMPLETE	***************************************	OAF, SFAKK	GAP, SPARK	<spark gap=""></spark>	CARBON	CARBO CARBO METAL	CARBON METAL OXIDE	CARBON 100K 59	RESISTOR (SU CARBON	<resistor></resistor>	LAMP, NEON	<neon lamp=""></neon>	INDUCTOR 470UH	◆COIL>	IC TDA6106Q	₫Ç	DIODE RD10E	DIODE 1SS133T-77 DIODE 1SS133T-77	<diode></diode>	PLUG, CONNECTOR 9P PLUG, CONNECTOR 9P	*1-508-784-00 PIN, CONNECTOR (5mm PITCH) IP *1-508-784-00 PIN, CONNECTOR (5mm PITCH) IP M12331 882-11 SOCKET PICTURE TUBE	TAB (CONTAC PLUG, CONNE	<connector></connector>	CARBON	CERAMIC ELECT	CERAMIC CERAMIC	<capacitor></capacitor>		! 🗀 🗯
12PF		OMPLETE	****				180K	680K 1K 3.9K		100K 2.4K	RGE RESIS			v	HUC				SB2	I-77		CTOR 9P CTOR 9P	OR (5mm I	CTOR 7P	V	100	330PF 22MF	12PF 0.001MF 0.01MF		**************************************	
5%		* *	****				5%	1%% 1%%	5% 8%	1% 1%	TANT)												чтсн)			5%	10% 20%	5% 10%		# 1	-
50V			****				1/4W	1/2W 1/2W	1/2W F	1/4W 1/4W	10												IP			1/4W	2KV 250V	500V			REMARK
C1304 C1305	C1302	C1301					****	SG761 SG762		R771	R769 R770	R766 R767	R765	R762	D761		NL761		L761		IC761	*********	D762	7761	CN/66	CN765	CN763 CN763	CN761	******	C765 C765	REF. NO.
1-126-964-11 1-137-399-11	1-126-959-11	1-137-399-11		* A-1372-304-A		* A-1372-288-A	*****	1-519-422-11 1-519-422-11		1-260-087-11	1-260-099-11 1-260-099-11 1-247-807-31		1-215-430-00	1-215-743-11 1-260-132-11 1-215-420-00	1 210 7/2 11		1-519-108-99		1-408-429-00		8-759-434-39		8-719-923-86 8-719-110-17 8-719-923-86	0 110 001 33	* 1-564-515-11	*1-564-512-11	*1-564-507-11 *1-508-784-00 *1-251-182-11	1-695-915-11		1-161-754-00 1-102-050-00 1-162-115-00 1-107-662-11	PART NO.
ELECT FILM	ELECT	FILM		A HA BOARD, COMPLETE (KP-46C36 only)	***************************************	A HA BOARD, COMPLETE	****	GAP, SPARK GAP, SPARK	<spark gap=""></spark>	CARBON	CARBON CARBON	CARBON METAL OXID	METAL	1 CARBON 500K 5% 0 METAL 910 1%	<resistor></resistor>		LAMP, NEON	<neon lamp=""></neon>	INDUCTOR 470UH	<coil></coil>	IC TDA6106Q	40	DIODE MIZJ-T-77-15 DIODE MIZJ-T-77-15 DIODE MIZJ-T-77-15	<diode></diode>	*1-564-515-11 PLUG, CONNECTOR TOP	PLUG, CONNI	11 PLUG, CONNECTOR 4P 10 PIN, CONNECTOR (5mm PITC) 11 SOCKET PICTURE TUBE	CONNECTOR>		CERAMIC CERAMIC CERAMIC ELECT	DESCRIPTION
10MF 0.1MF	0.47MF	0.1MF		COMPLETE	***************************************	COMPLETE	****		V	100	100 100 100 100 100 100 100 100 100 100	1.5K E 68K	2.4K	560K 910	TROE BEGIG			Ÿ	70UH				SB2 T-77-15 SB2 T-77-15		ECTOR 10P	ECTOR 9P	ECTOR 4P TOR (5mm I	3 &		0.001MF 0.01MF 330PF 22MF	
20% 5%	20%	5%		*(KP-40	*	•	* * * *			5%	5% 5%	588 588	1%	5% 1%													РІТСН) ІР			10% 10% 20%	
50V 50V 46C36 only	50V	50V		5C36 only)	(except KP-46C36		********			1/2W	1/2W 1/4W	1/2W 2W F		1/2W 1/4W	3												IP			2KV 500V 2KV 250V	REMARK

1/2W 2W F 1/2W F 1/2W 1/4W	1/4W 1/4W) 100 1/2W									ΙP			1/4W	500V 2KV 250V	50V		REMARK
SG761 SG762	R771	R766 R767 R768 R769 R770	R761 R762 R763 R764 R765		NL761		L761		IC761		D761 D762 D763 D764		CN766	CN764 CN765	CN761 CN763 CN763		C763 C765 C766 C767	REF. NO.
1-519-422-11 1-519-422-11	1-260-087-11	1-260-101-11 1-215-903-11 1-260-133-11 1-260-099-11 1-247-807-31	1-219-743-11 1-260-132-11 1-215-420-00 1-249-426-11 1-215-430-00		1-519-108-99		1-408-429-00		8-759-434-39		8-719-991-33 8-719-923-86 8-719-110-17 8-719-923-86		* 1-564-513-11	* 1-564-512-11	1-695-915-11 *1-564-507-11 *1-508-784-00		1-161-754-00 1-102-050-00 1-162-115-00 1-107-662-11	PART NO.
<spark gap=""> GAP, SPARK GAP, SPARK</spark>	CARBON	CARBON METAL OXIDI CARBON CARBON CARBON		<resistor></resistor>	LAMP, NEON	<neon lamp<="" td=""><td>INDUCTOR 47</td><td><coil></coil></td><td>IC TDA6106Q</td><td>∆C</td><td>DIODE</td><td><diode></diode></td><td>PLUG, CONNE</td><td>PLUG, CONNE</td><td>TAB (CONTAC PLUG, CONNE PIN, CONNEC</td><td><connector< td=""><td>CERAMIC CERAMIC CERAMIC ELECT</td><td>DESCRIPTION</td></connector<></td></neon>	INDUCTOR 47	<coil></coil>	IC TDA6106Q	∆ C	DIODE	<diode></diode>	PLUG, CONNE	PLUG, CONNE	TAB (CONTAC PLUG, CONNE PIN, CONNEC	<connector< td=""><td>CERAMIC CERAMIC CERAMIC ELECT</td><td>DESCRIPTION</td></connector<>	CERAMIC CERAMIC CERAMIC ELECT	DESCRIPTION
·	100	1.5K 680K 1K	RGE RESIS 560K 910 5.6K 2.4K			•	HO0				T-77 [-77-15 SB2 [-77-15		CTOR 10P	CTOR 9P	T) CTOR 4P COR (5mm I	V	0.001MF 0.01MF 330PF 22MF	
	5%	\$\$\$\$\$ \$\$\$\$	TANT) 5% 1% 5% 1%												CH)		10% 10% 20%	[
	1/2W	1/2W 2W F 1/2W F 1/2W 1/4W	100 1/2W 1/4W 1/4W 1/4W												1P		2KV 500V 2KV 250V	REMARK
	F SG761 1-519-422-11 SG762 1-519-422-11	F SG761 1-519-422-11 GAP, SPARK SAPS SG762 1-519-422-11 GAP, SPARK	R766 1-260-101-11 CARBON 1.5K 5% 1/2W R767 1-215-903-11 METAL OXIDE 68K 5% 2W R768 1-260-133-11 CARBON 680K 5% 1/2W R769 1-260-099-11 CARBON 1K 5% 1/2W R770 1-247-807-31 CARBON 100 5% 1/2W 4W R771 1-260-087-11 CARBON 100 5% 1/2W 2/2W R771 1-260-087-11 CARBON 100 5% 1/2W SG761 1-519-422-11 GAP, SPARK GAP> W F SG761 1-519-422-11 GAP, SPARK SPARK SG762 1-519-422-11 GAP, SPARK	R761 1-219-743-11 RESISTOR (SURGE RESISTANT) 100 R762 1-260-132-11 CARBON 560K 5% 1/2W R763 1-215-420-00 METAL 910 1% 1/4W R764 1-249-426-11 CARBON 5.6K 5% 1/4W R765 1-215-430-00 METAL 2.4K 1% 1/4W R766 1-260-101-11 CARBON 1.5K 5% 1/2W R767 1-215-903-11 METAL OXIDE 68K 5% 2W R768 1-260-193-11 CARBON 680K 5% 1/2W R769 1-260-099-11 CARBON 1K 5% 1/2W R770 1-247-807-31 CARBON 100 5% 1/4W R771 1-260-087-11 CARBON 100 5% 1/4W R771 1-260-087-11 CARBON 100 5% 1/2W SG761 1-519-422-11 GAP, SPARK SG762 1-519-422-11 GAP, SPARK SG762 1-519-422-11 GAP, SPARK	R761 1-219-743-11 RESISTOR (SURGE RESISTANT) 100 R762 1-260-132-11 CARBON 560K 5% 1/2W R763 1-215-420-00 METAL 910 1% 1/4W R764 1-249-426-11 CARBON 5.6K 5% 1/4W R765 1-215-430-00 METAL 2.4K 1% 1/4W R766 1-260-101-11 CARBON 1.5K 5% 1/2W R768 1-260-133-11 CARBON 680K 5% 2W R768 1-260-133-11 CARBON 11K 5% 1/2W R7769 1-260-099-11 CARBON 11K 5% 1/2W R770 1-247-807-31 CARBON 100 5% 1/4W R771 1-260-087-11 CARBON 100 5% 1/2W S72W R771 1-260-087-11 CARBON 100 5% 1/2W S72W S761 1-519-422-11 GAP, SPARK GAP> S6762 1-519-422-11 GAP, SPARK S6762 1-519-422-11 GAP, SPARK	NL761 1-519-108-99 LAMP, NEON	NL761 1-519-108-99 LAMP, NEON	L761 1-408-429-00 INDUCTOR 470UH	L761 1-408-429-00 INDUCTOR 470UH	IC761 8-759-434-39 IC TDA6106Q	IC761 8-759-434-39 IC TDA6106Q	D761 8-719-991-33 DIODE ISS133T-77 D762 8-719-923-86 DIODE MTZI-T-77-15 D763 8-719-923-86 DIODE MTZI-T-77-15 D764 8-719-923-86 DIODE MTZI-T-77-15 CCCOIL> CCOIL> CCOIL> CCOIL> CCOIL> CCOIL> CCOIL> CCOIL> CRESISTOR CRESISTOR (SURGE RESISTANT) 100 R762 1-260-132-11 CARBON R764 1-249-425-10 METAL 1-215-93-11 CARBON R765 1-260-101-11 CARBON R766 1-260-101-11 CARBON R766 1-260-103-11 CARBON R767 1-215-93-11 METAL OXIDE 68K R768 1-247-807-31 CARBON R770 1-247-807-31 CARBON R771 1-260-087-11 CARBON R771 R771 R771 R771 R771 R78 R78 R79 R79 R79 R79 R79 R79 R79 R79 R79 R79	ADIODES	CN766 *1.564-513-11 PLUG, CONNECTOR 10P - ADIODE> - ADIODE> - D761 8-719-991-33 DIODE ISS133T-77 D762 8-719-923-86 DIODE MTZJ-T-77-15 D763 8-719-10-17 DIODE RD10ESB2 D764 8-719-923-86 DIODE MTZJ-T-77-15 - CIC-5 IC761 8-759-434-39 IC TDA6106Q - COIL-> -	CN766 *1-564-512-11 PLUG, CONNECTOR 9P CN766 *1-564-513-11 PLUG, CONNECTOR 9P CN766 *1-564-513-11 PLUG, CONNECTOR 10P	CN761 1-695-915-11 TAB (CONTACT) CN762 *1-564-507-11 PLUG, CONNECTOR 4P CN763 *1-564-517-11 PLUG, CONNECTOR (Appendix Appendix Ap	CONNECTOR> CN761	C763 1-161-734-00 CERAMIC 0.001MF 10% C766 1-162-15-00 CERAMIC 0.01MF 10% C766 1-162-15-00 CERAMIC 300PF 10% C767 1-107-662-11 ELECT 300PF 10% C767 1-107-662-11 ELECT 22MF 20% CN761 1-695-915-11 TAB (CONTACT) CN762 *1-564-507-11 PLUG, CONNECTOR 4P CN763 *1-508-784-00 PIN, CONNECTOR 4P CN765 *1-564-512-11 PLUG, CONNECTOR 4P CN766 *1-564-512-11 PLUG, CONNECTOR 10P CN766 *1-564-513-11 PLUG, CONNECTOR 10P CN766 *1-564-513-11 PLUG, CONNECTOR 10P CN761 8-719-991-33 DIODE ISS133T-77 D762 8-719-923-86 DIODE MTZJ-T-77-15 D763 8-719-923-86 DIODE MTZJ-T-77-15 D764 8-719-923-86 DIODE MTZJ-T-77-15 D765 8-719-104-39 IC TDA6106Q CCOIL> L761 1-408-429-00 INDUCTOR 470UH CRESISTOR CRESISTOR (SURGE RESISTANT) 1 CARBON S60K 5% R762 1-215-430-40 METAL 2.4K 1% R763 1-215-430-40 METAL 2.4K 1% R764 1-249-426-11 CARBON 560K 5% R767 1-240-097-11 CARBON 15K 5% R767 1-240-097-11 CARBON 15K 5% R768 1-250-093-11 CARBON 100 5% R771 1-260-087-11 CARBON 100 5% SG761 1-519-422-11 GAP, SPARK SG762 1-519-422-11 GAP, SPARK SG762 1-519-422-11 GAP, SPARK SG762 1-519-422-11 GAP, SPARK SG762 1-519-422-11 GAP, SPARK

C1301 1-137-399-11 FILM 0.1MF 5% 50V (46C36 only) C1302 1-126-959-11 ELECT 0.47MF 20% 50V (46C36 only) C1304 1-126-964-11 ELECT 10MF 20% 50V C1305 1-137-399-11 FILM 0.1MF 5% 50V (46C36 only)
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HA ZR ZG

**	\$1306 \$1307	\$1301 \$1302 \$1303 \$1304 \$1305		R1314 R1315	R1312	R1311	R1309	R1307 R1308	R1303 R1304 R1305	R1301	J1301		IC1301	D1306 D1307 D1308	D1301 D1302 D1303 D1304 D1305		CN1301 CN1302 CN1304	C1307	C1306	REF. NO.
***************************************	1-572-198-11 1-572-198-11	1-572-198-11 1-572-198-11 1-572-198-11 1-572-198-11 1-572-198-11		1-247-807-31 1-247-804-11	1-247-804-11	1-249-429-11	1-247-895-91	1-24/-813-91 1-249-420-11 1-247-895-91	1-249-416-11 1-249-417-11 1-249-425-11 1-247-815-91	1-249-425-11	1-770-361-11		8-741-780-51	8-719-110-17 8-719-110-17 8-719-110-17	8-719-110-17 8-719-110-17 8-719-110-17 8-719-053-43 8-719-053-43		1-564-523-11 *1-564-526-11 *1-564-518-11	1-126-964-11	1-126-964-11	PART NO.
********	SWITCH SWITCH	SWITCH, KEYBOARD SWITCH, KEYBOARD SWITCH, KEYBOARD SWITCH, KEYBOARD SWITCH, KEYBOARD	<switch></switch>	CARBON		CARBON		CARBON	CARBON CARBON CARBON	CARBON	TERMINAL BLOCK, S	<jack></jack>	<ic></ic>		DIODE RD10 DIODE RD10 DIODE RD10 DIODE SLR- DIODE SLR-	<diode></diode>	CONNECTOR> PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	ELECT		DESCRIPTION
** ** ** ** ** ** ** ** **	, KEYBOARD , KEYBOARD	YBOARD YBOARD YBOARD YBOARD YBOARD		100 75	75	10 K	470K	1.8K 470K			BLOCK, S (46C		51	DIODE RD10ESB2 (46C36 only) DIODE RD10ESB2 (46C36 only) DIODE RD10ESB2 (46C36 only)	7 DIODE RD10ESB2 (46C36 only) 7 DIODE RD10ESB2 (46C36 only) 7 DIODE RD10ESB2 (46C36 only) 3 DIODE SLR-325VCT31 3 DIODE SLR-325VCT31		<connector> PLUG, CONNECTOR 8P PLUG, CONNECTOR 11P (46C36 only) PLUG, CONNECTOR 3P (46C36 only)</connector>	10 MF	10 MF	7
* * * * * * * * * * * * * * * * * * *				5% 5%		5%		5%			(46C36 only)			nly)			6C36	20%	20%	
* * * * * * * *			,	1/4W 1/4W 1/4W (46C36 only)	(46C36 only) 1/4W (46C36 only)	1/4W	1/4W (46C36 only)	1/4W 1/4W 1/4W	1/4W 1/4W 1/4W	1/4W (46C36 only)	<u>\$</u>						only)	50V (46C36 only)	ঙ	REMARK
L1431 L1432	DY1431	D1431 D1432 D1433	CN1462 CN1464	CN1434 CN1461	CN1431 CN1432 CN1433		C1446	C1444 C1444	C1438 C1439 C1440 C1441	C1433 C1434 C1435 C1436 C1436			***	R1418	R1401 R1402	DY1401	CNI 401 CNI 403 CNI 404 CNI 405			REF. NO.
44	_			* *	* * *												* * * *		* :	PAF
10-478-11 10-478-11	-451-454-11	8-719-110-88 8-719-110-88 8-719-991-33	*1-564-507-11 *1-564-507-11	1-580-689-11	-564-508-11 -564-510-11 -564-507-11		1-126-933-11	[-120- 9 35-11 [-107-639-11 [-126-033-11	1-106-383-00 1-161-830-00 1-126-933-11 1-102-074-00	1-104-999-11 1-106-383-00 1-107-667-11 1-137-364-11 1-137-364-11		4-382-854-11	**************************************	1-216-475-11	1-249-414-11 1-249-414-11	1-451-454-11	-564-510-11 -564-506-11 -564-507-11 -580-689-11		-1390-682-	PART NO.
<coil> 1-410-478-11 INDUCTOR 471 1-410-478-11 INDUCTOR 471</coil>	<connector 1-451-454-11="" deflection="" td="" y<=""><td><diode> 8-719-110-88 DIODE RD39ES 8-719-110-88 DIODE RD39ES 8-719-991-33 DIODE 1SS1331</diode></td><td>*1-564-507-11 PLUG, CONNEG *1-564-507-11 PLUG, CONNEG</td><td>*1-580-689-11 PIN, CONNECT *1-564-506-11 PLUG, CONNEC</td><td>-564-508-11 PLUG, CONNEC -564-510-11 PLUG, CONNEC -564-507-11 PLUG, CONNEC</td><td>< CONNECTOR:</td><td>1-126-933-11 ELECT</td><td>-126-933-11 ELECT -126-933-11 ELECT</td><td>1-106-383-00 MYLAR 1-161-830-00 CERAMIC 1-126-933-11 ELECT 1-102-074-00 CERAMIC</td><td>1-104-999-11 MYLAR 1-106-383-00 MYLAR 1-107-667-11 ELECT 1-137-364-11 FILM 1-137-364-11 FILM</td><td><capacitor></capacitor></td><td>4-382-854-11 SCREW (M3X10</td><td>*A-1390-683-A ZG BOARD, C</td><td>METAL</td><td></td><td>1-451-454-11 DEFLECTION Y</td><td>*1-564-510-11 PLUG, CONNEC *1-564-506-11 PLUG, CONNEC *1-564-507-11 PLUG, CONNECT *1-580-689-11 PIN, CONNECTOR:</td><td><connector:< td=""><td>32-A ZR BOARD,</td><td>T NO. DESCRIPTION</td></connector:<></td></connector>	<diode> 8-719-110-88 DIODE RD39ES 8-719-110-88 DIODE RD39ES 8-719-991-33 DIODE 1SS1331</diode>	*1-564-507-11 PLUG, CONNEG *1-564-507-11 PLUG, CONNEG	*1-580-689-11 PIN, CONNECT *1-564-506-11 PLUG, CONNEC	-564-508-11 PLUG, CONNEC -564-510-11 PLUG, CONNEC -564-507-11 PLUG, CONNEC	< CONNECTOR:	1-126-933-11 ELECT	-126-933-11 ELECT -126-933-11 ELECT	1-106-383-00 MYLAR 1-161-830-00 CERAMIC 1-126-933-11 ELECT 1-102-074-00 CERAMIC	1-104-999-11 MYLAR 1-106-383-00 MYLAR 1-107-667-11 ELECT 1-137-364-11 FILM 1-137-364-11 FILM	<capacitor></capacitor>	4-382-854-11 SCREW (M3X10	*A-1390-683-A ZG BOARD, C	METAL		1-451-454-11 DEFLECTION Y	*1-564-510-11 PLUG, CONNEC *1-564-506-11 PLUG, CONNEC *1-564-507-11 PLUG, CONNECT *1-580-689-11 PIN, CONNECTOR:	<connector:< td=""><td>32-A ZR BOARD,</td><td>T NO. DESCRIPTION</td></connector:<>	32-A ZR BOARD,	T NO. DESCRIPTION
<coil> 10-478-11 INDUCTOR 47UH 10-478-11 INDUCTOR 47UH</coil>	<connector> -451-454-11 DEFLECTION YOKE</connector>		*1-564-507-11 PLUG, CONNECTOR 4P *1-564-507-11 PLUG, CONNECTOR 4P	PIN, CONNECTOR (PC BO PLUG, CONNECTOR 3P	1-564-508-11 PLUG, CONNECTOR 5P 1-564-510-11 PLUG, CONNECTOR 7P 1-564-507-11 PLUG, CONNECTOR 4P	<connector></connector>	1-126-933-11 ELECT 100MF	ELECT ELECT	MYLAR CERAMIC ELECT CERAMIC	1-104-999-11 MYLAR 0.1MF 1-106-383-00 MYLAR 0.047MF 1-107-667-11 EILECT 2.2MF 1-137-364-11 FILM 0.001MF 1-137-364-11 FILM 0.001MF	<capacitor></capacitor>	SCREW (M3X10), P, SW	*A-1390-683-A ZG BOARD, COMPLETE ***********************************	METAL OXIDE	<resis carbc="" carbc<="" td=""><td></td><td>PLUG, CONNECTOR 71 PLUG, CONNECTOR 31 PLUG, CONNECTOR (PC PIN, CONNECTOR (PC</td><td><connector></connector></td><td>82-A</td><td></td></resis>		PLUG, CONNECTOR 71 PLUG, CONNECTOR 31 PLUG, CONNECTOR (PC PIN, CONNECTOR (PC	<connector></connector>	82-A	
<coil> INDUCTOR INDUCTOR</coil>		<pre><diode> 8-719-110-88 DIODE RD39ESB2 8-719-110-88 DIODE RD39ESB2 8-719-991-33 DIODE ISS133T-77</diode></pre>	PLUG, CONNECTOR PLUG, CONNECTOR	1-560-689-11 PILUG, CONNECTOR (PC BOARD) 4P 1-564-506-11 PLUG, CONNECTOR 3P	1-564-508-11 PLUG, CONNECTOR 5P 1-564-510-11 PLUG, CONNECTOR 7P 1-564-507-11 PLUG, CONNECTOR 4P	<connector></connector>	ELECT 100MF	ELECT 47MF ELECT 100MF	1-106-383-00 MYLAR 0.047MF 10% 1-161-830-00 CERAMIC 0.0047MF 1-126-933-11 ELECT 100MF 20% 1-102-074-00 CERAMIC 0.001MF 10% 1-102-074-00 CERAMIC 0.001MF 10%	MYLAR MYLAR ELECT FILM FILM	<capacitor></capacitor>	SCREW (M3X10), P,	ZG BOARD,	METAL OXIDE 120	<resistor> CARBON CARBON CARBON METAL OXIDE</resistor>	DEFLECTION	I-564-510-11 PLUG, CONNECTOR 7P I-564-506-11 PLUG, CONNECTOR 3P I-564-507-11 PLUG, CONNECTOR (PC BOARD) 4P CONNECTOR (PC BOARD) 4P	<connector></connector>	32-A ZR BOARD,	

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

REF. NO.

Q1431 Q1432 Q1433 Q1434 Q1435

Q1436

Les composants identifies par une trame et une marque A sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.



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*********	1-215-908-00		1-249-384-11 1-215-916-00 1-249-417-11 1-249-384-11 1-249-400-11	1-249-417-11 1-249-411-11 1-249-417-11 1-249-401-11 1-260-311-11	1-247-815-91 1-249-377-11 1-249-403-11 1-249-416-11 1-249-403-11	1-249-414-11 1-249-432-11 1-249-432-11 1-249-414-11 1-249-417-11	1-249-414-11 1-249-414-11 1-249-377-11 1-215-908-00 1-216-475-11	8-729-119-78	8-729-017-06 8-729-017-05 8-729-119-76 8-729-119-78 8-729-119-78). PART NO.
**************************************	1-215-908-00 METAL OXIDE	CARBON CARBON CARBON	CARBON METAL OXIDE CARBON CARBON CARBON	CARBON CARBON CARBON CARBON CARBON	CARBON CARBON CARBON CARBON CARBON CARBON	CARBON CARBON CARBON CARBON CARBON	CARBON CARBON CARBON METAL OXIDE METAL OXIDE	8-729-119-78 TRANSISTOR 2SC2785-HFE <resistor></resistor>	TRANSISTOR 2SC4793 TRANSISTOR 2SA1837 TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE	<transistor></transistor>	DESCRIPTION
*******	120	560 560 33	1.8 680 1 K 1.8	1K 330 1K 47 39	220 0.47 68 820 68	560 18K 18K 560 1K	560 560 0.47 120	SC2785-HI	SC4793 SA1837 SA1175-HI SC2785-HI SC2785-HI	V	UPTION
******	5% 5%	55 58 58 58 58	55555 5888 8888	55555 8888 8888	55555 8888 8888	88888 88888	\$ \$ \$ \$ \$ \$	ä	से से से		- Page
******	3W	1/4W 1/4W 1/4W	1/4W 3W 1/4W 1/4W 1/4W	1/4W 1/4W 1/4W 1/4W 1/4W	1/4W 1/4W 1/4W 1/4W	1/4W 1/4W 1/4W 1/4W 1/4W	1/4W 1/4W 1/4W 3W 3W				REMARK
*					* * * * *	Ŧ	חחח				REF. NO.
	*4-056-291-01 *4-056-292-01 *4-056-293-01 *4-056-298-01 *4-056-300-01	*4-041-428-01 *4-042-463-01 *4-047-555-01 *4-047-774-01	3-859-371-31 3-859-371-31 3-859-371-31 *4-037-674-01 *4-041-426-01	ACCESSORII ***********************************	A 8-733-518-05 PICTURE TUBE 07MAC4(R) (61835) A 8-733-518-05 PICTURE TUBE 07MAC2(O)(GC LENS)		8.598.414-00 ANTENNA SWITCH AS-2F A 8-398-953 II BLOCK ASSY, HIGH-YOLTAGE A 8-733-495-05 PICTURE TUBE 07MAC2(B) (LONG NECK) (GA) (46C36	1-556-945-21 CABLE, P-P *1-557-056-41 CABLE, P-P &1-769-837-11 CORD, POWER(WITH NOISE FILTER)	A: 223-925-12 RESISTOR ASSY (HIGH-VOLTAGE) A: 451-454-11 DEPLECTION YOKE (R) (G) A: 441-451-21 DEPLECTION YOKE (B) 1-452-909-11 MAGNET ASSY, 4 POLE 1-505-378-11 SPEAKER (JOCM)		O. PART NO.
	INDIVIDUAL CUSHION (UF CUSHION (LC PLATE, BOTT TRAY (53S35)	BAG, POLYETHYLEN SHEET, PROTECTION PLATE, TOP (61S35) PLATE, TOP (46C36/5)		ACCESSORIES AND PACKING MATERIALS ************************************	PICTURE TO	PICTURE TO	ANTENNA SWITCH AS-2F BLOCK ASSY, HIGH-YOLTAGE PKTURE TUBE (TMACZ/B) (LONG NECK) (GA) (46C36)	CABLE, P-P CABLE, P-P CORD, POW	RESISTOR ASSY (HIGH-VOL DHELBCTION YOKE (R) (G) DEFLECTION YOKE (B) MAGNET ASSY, 4 POLE SPEAKER (JOCM)	MISCELLANEOUS	DESCRIPTION
	INDIVIDUAL CARTON (53835) CUSHION (UPPER) (ASSY) (53835) CUSHION (LOWER) (ASSY) (53835) PLATE, BOTTOM (53835) TRAY (53835)	BAG, POLYETHYLENE (61835) SHEET, PROTECTION PLATE, TOP (61835) PLATE, TOP (46C36/53S35)	MANUAL, INSTRUCTION (61835) MANUAL, INSTRUCTION (46C36) BOARD, TOP (48S35) BAG, PROTECTION (except 61S35)	S AND PACKING MATER ***********************************	BE 07MAC4	JBE OTMACS JBE OTMACS JBE OTMACS	WITCH AS-2 Y, HIGH-YO JBE 07MAC2	ER/WITH NO	NYOKE (R) NYOKE (R) NYOKE (B) NYOKE (B) SSY, 4 POLE OCM)	VEOUS	<i>i</i>
	53S35) Y) (53S35) SY) (53S35))	61835)	N (61S35) N (46C36)	*******	(R) (61835) (D)(GC LEN	(B) (LONG) (ACS) (B) (LONG) NECK) (GA) (48/35/53/5) (R) (LONG) NECK) (GA) (48/35/53/5) (GA) (48/35/53/5)	DY LONG I	NSE FILTER	VOLTAGE) (G)		RE
					* 5 * * * *	(GA) (46C8) NG NECK) 180 (53S35) 180 (18CK) 180 (18CK) 180 (18CK) 180 (18CK)	NG NECK)				REMARK

R1461 R1462 R1463 R1464 R1465

R1455 R1456 R1457 R1458 R1459

R1450 R1451 R1452 R1453 R1454

R1442 R1443 R1445 R1448 R1449

R1437 R1438 R1439 R1440 R1441

R1431 R1432 R1433 R1435 R1436

REMOTE COMMANDER

*4-057-651-01 *4-057-652-01 *4-057-657-01 *4-057-658-01 *4-057-659-01

CUSHION (UPPER) (ASSY) (48S35) CUSHION (LOWER) (ASSY) (48S35) INDIVIDUAL CARTON (48S35) TRAY (48S35) BOARD, BOTTOM (48S35)

*4-057-642-01 *4-057-643-01 *4-057-648-01 *4-057-649-01 *4-057-650-01

11 CUSHION (UPPER) (ASSY) (61S35)
11 CUSHION (LOWER) (ASSY) (61S35)
11 INDIVIDUAL CARTON (61S35)
11 TRAY (61S35)
11 BOARD, BOTTOM (61S35)

1-473-749-31 4-978-977-01 REMOTE COMMANDER (RM-Y136A) POCKET, COVER (FOR RM-Y136A)